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| 23 | | | |
| 24 | | | |
| 25 | | | |

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1
                    THE VIDEOGRAPHER:
                                       Here begins
 2
      videotape number 1 of volume number 1 in the
      deposition of Michael E. Parrish, Ph.D., in the
 3
      case of William Barnes, et al., versus The
 4
      American Tobacco Company, Incorporated, et al.
                    Today's date is September 30th,
 6
 7
             The time is 9:40 a.m.
                                     My name is Scott
      Forman and I am the videographer. Starting on my
       eft, would the counsel please state their names
 9
10
      and whom the represent.
                MR. LEFKOWITZ: My name is Paul
11
      Lefkowitz, counsel for the plaintiffs.
12
                R. HILDRE:
13
                                Don Hildre, counsel for
15
                  MS. HONDORF:
                                   Sherrill Hondorf,
      counsel for the plaintiffs.
16
17
                   MR. McCONNELL:
                                     Steve McConnell.
      Dechert, Price & Rhoads, on behalf of defendant
18
     hilip Morris
19
20
                   MS. TYLER:
                               Julia Tyler, with
21
      Johnson & Tyler, for defendant Philip Morris.
22
                   MR. MONICA:
                                John Monica, Shook,
23
      Hardy & Bacon, for Lorillard Tobacco Company.
24
                   MR. PURVIS:
                                Allen Purvis, Shook,
25
      Hardy & Bacon, Brown & Williamson and Lorillard
```

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1
      Tobacco.
 2
                    THE VIDEOGRAPHER:
                                       Would the
 3
      reporter please swear the witness.
 4
      MICHAEL
                       E.
                            PARRISH.
                                             P h. D..
 5
               IDELETEDI
 6
                                                sworn.
      EXAMINATION BY MR. LEFKOWITZ:
 R
             Q. Good morning, Professor Parrish.
      Would you prefer that I call you Professor
 q
      Parrish or Parrish?
10
             Professor is fine.
11
12
                   Professor is fine? We're taking
13
     wour deposition today in connection with an
      opinion that you have offered in connection with
14
15
      this case. Have you ever testified before at a
16
      deposition?
17
             No.
                 Have you ever testified in any legal
18
             Q.
19
       coceeding?
2.0
             No.
21
             Q.
                   Let me explain to you a little bit
22
     pout the deposition process. I'm going to be
      asking you questions.
23
24
                   And even though we have a video
```

camera taping your testimony, I'm going to ask

25

```
that you provide oral responses to my questions
```

- 2 rather than shaking your head or nodding your
- 3 head or shrugging your shoulders or giving me
- 4 some kind of non-verbal response, because we need
- 5 > that for the purposes of the stenographer, the
- 6 court reporter who is going to be transcribing
- 7 our actual answers in response to my questions.
- 8 Fair enough?
- 9 A. I understand.
- 10 Q. In addition, during the course of my
- 11 questioning of there is any question that I ask
- 12 you that you don't understand or confuses you or
- 13 you would like me to rephrase, would you please
- 14 Let me know and I'll do the best I can to try to
- 15 provide you with a question that you're capable
- 16 of answering Fair enough?
- 17 A. I certainly will.
- 18 Q. Ou teach right now at the
- 19 University of California at San Diego?
- 20 That's correct.
- Q. What courses do you teach?
- 22 I generally teach courses in the History
- 23 of American Law, courses in 20th Century American
- 24 Social and Cultural History, and occasionally a
- 25 course entitled Justice.

```
Q. What is the course content of the
```

- 2 History of American Law?
- 3 A. It is a survey course that runs over two
- 4 quarters that goes basically from the time of
- 5 Edward I to Janet Reno. .
- Q. Does that focus on significant legal developments?
- 8 A. It focuses both on constitutional public
- 9 aw issues as well as private law issues, for
- 10 example him y of tort liability contracts and
- 11 property law
- Q. Is that an undergraduate course?
- 13 A. Yes is is.
- Q. What is the course content of the
- 15 20th century social history?
- 16 A. It deals with both political events and
- 17 with social and cultural change, especially
- 18 social movements in 20th century America.
- Q. Do either of those courses deal with
- 20 involve cigarette related litigation?
- 21 A. Well, in the context of discussing social
- 22 wovements such as such as civil rights,
- 23 prohibition, various crusades against gambling
- 24 and prostitution, I do upon occasion mention the
- anti-cigarette activities in the 20th century.

```
1 Q. In connection with the history of
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- 2 American law course, does the course content
- 3 implicate tobacco litigation?
- A. I have not dealt with that subject. No,
- 5 not in that course.
- 6 Q. How long have you taught the history
- 7 of American law course?
- 8 A. Nearly 12 years, I believe.
- Q. And how about the 20th century
- 10 social history course?
- 11 A. 28 **Febr**s.
- 12 Q. Are there any other courses that you
- 13 teach?
- 14 Occasionally a special graduate seminar.
- Q. What would the course content of
- 16 that seminar be?
- 17 A. Oftentimes it's a review of the literature
- 18 of a particular period of American history such
- 19 Real or the Cold War period.
- 20 Q. Have you ever been retained prior to
- 21 now to act as an expert in connection with any
- 22 egal matter?
- 23 A. No.
- Q. This is the first time that you have
- been retained to provide testimony as an expert?

```
1 A. Yes.
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- Q. When were you first contacted for
- 3 the purposes of acting as an expert in this case?
- 4 A. It would have been sometime late October,
- 5 early November 1996.
- 6 Who contacted you?
- 7 A. I was contacted by Allen Purvis.
- Q. Was that via telephone?
- 9 A. Yes.
- Q. Did Mr. Purvis indicate to you how
- 11 he had obtained your name?
- 12 A. I had known Mr. Purvis previously to
- 13 that
- 14 Mow had you known Mr. Purvis?
- 16 of years before. I believe two, two and a half
- 17 eyears prior to that.
- Q. How did you meet Mr. Purvis two and
- 19 half years prior?
- 21 W I would meet with him.
- Q. What was the purpose of the meeting?
- 23 A. He asked me if I was interested in
- 24 undertaking some research concerning the history
- of public awareness concerning cigarettes and the

```
related health issues with regard to cigarettes.
```

- Q. So Mr. Purvis originally contacted
- 3 you sometime in 1993, is that a fair statement?
- 4 A. To the best of my recollection, yes.
- 5 Q. And when he first contacted you in
- 6 1993, he indicated that he would like to meet
- 7 with you?
- 8 A. Yest.
- 9 Did you in fact meet?
- 10 A. Yes
- 11 Q. And what did you discuss during the
- 12 meeting?
- 13 A. He besically outlined the kind of research
- 14 that his law firm was interested in doing and
- 15 nquired whether I would be interested in
- 16 andertaking that kind of research.
- 17 Q. What was your response?
- 18 I said I would think it over.
- Q. Did you ever get back to Mr. Purvis
- 20 mefter your meeting?
- 21 **A**. Yes.
- Q. When was that?
- 23 A. Oh, I don't recall. It may have been a
- 24 week or so after that.
- Q. What did you tell Mr. Purvis?

- 1 A. I said I think I would be interested in
- 2 doing that research.
- Q. Why were you interested in doing
- 4 that research?
- 5 A. Well, I was in the middle of some projects
- 6 that I was about to complete, and I was thinking
- 7 about new research activities, and it was a topic
- 8 at the time that I didn't know a great deal about
- and thought it would be interesting to explore.
- Q. During your meeting in 1993 with
- 11 Purvis Indicate to you some
- 12 type of conclusion that he was looking to obtain?
- 13 A. Absolutely not.
- 14 When was the next time that you
- 15 Purvis after you called him a week
- 16 or so after our meeting in 1993?
- 17 A. I don't specifically recall. It would be
- 18 ery difficult to recall a particular time. We
- 19 have talked on the phone, off and on, in the
- 20 mext year or so.
- 21 Q. You were formally retained, however,
- 22 ____n October of 1996?
- 23 A. I began to do some research about that
- 24 time, yes.
- Q. And was this a result of your being

```
1 retained?
```

- 2 A. Yes, I would -- yes.
- O. At the time that you were retained
- 4 did you have a discussion with Mr. Purvis
- 5 regarding your compensation?
- 6 ... Yes.
- 7 📉 Q. What was the discussion regarding
- 8 your compensation?
- 9 A. I said that I would need somewhere in the
- 10 heighborhous f \$125 an hour if I was going to
- 11 engage in the kind of research for his firm.
- Q. And Mr. Purvis indicated that was
- 13 acceptable
- 14 A. Yes
- Q. Prior to talking to Mr. Purvis in
- 16 \$\infty 993, had \text{yell} talked with any other attorneys
- 17 Exepresenting tobacco companies in connection with
- 18 tobacco related litigation?
- 19 No.
- Q. Since 1993, have you talked to
- 21 anybody, any attorneys representing any tobacco
- 22 meompanies other than Mr. Purvis?
- 23 A. Yes.
- Q. What other attorneys have you talked
- 25 to?

```
1 A. I can't recall all of them. Certainly
```

- 2 I've talked with Janet Johnson.
- Q. Who is Janet Johnson?
- 4 A. She is an attorney.
- Q. Do you know with what firm?
- 6 A. At the present time?
- Q. Yes.
- 8 A. She is with Johnson & Tyler.
- Q. And do you know who she represents?
- 10 A. She presents I believe tobacco
- 11 companies
- 12 Q. You don't know which tobacco
- l3 "company?
- 14 A. No I do not.
- Q. Who else?
- 16 A. Julia Tyler.
- 17 Do you know who Julia Tyler
- 18 represent
- 19, A. Not specifically, no.
- Q. When did you have conversations with
- 21 those two attorneys?
- 22 A. Janet Johnson accompanied Mr. Purvis to
- the first meeting that I had with him in San
- 24 Diego.
- Q. When was that meeting?

```
1 A. As I say, about three to three and a half
```

- years ago, the first meeting.
- Q. So in other words you're talking
- 4 about a meeting that she accompanied Mr. Purvis
- 5/ to, a meeting in 1993?
- 6 A. That's correct.
- Q. Have you seen her or talked with her
- 8 since that first meeting?
- 9 A. Yes.
- 10 Q. What have you discussed with her?
- 11 MR. PURVIS: Just a second. I'm
- 12 going to object. I think you're getting very
- 13 close to inquiring into work product materials,
- 14 and I would caution the witness to listen to the
- 15 guestions and not divulge the substance of
- 16 conversation that you have had with any of the
- 17 & attorneys for the defendants in this case.
- 18 You may discuss time, place, general
- 19 matters, but not specifics.
- 20 BY MR. LEFKOWITZ:
- 21 Q. Answer the question.
- 22 Would you repeat the question?
- MR. LEFKOWITZ: Could we have the
- 24 question read back?
- 25 (The record was read as requested.)

```
That question is so
                   THE WITNESS:
 1
      broad it would be -- it's impossible for me to
 2
      answer.
 3
      BY MR. LEFKOWITZ:
 4
                   Since 1996, specifically October of
 5
             Q.
      1996, have you personally met with any of the
 6
      attorneys representing the defendants in this
      case?
             Yes
                who have you met with?
10
             I have met with Allen Purvis, I have met
11
     with Julia Tyler, I have met with John, and I've
12
     met with James Johnson.
13
                   Where did those meetings take place?
14
             On saision in San Diego, here in
      Washington D.C.
             O. How many such meetings were there?
17
                In Los Angeles. Perhaps four to five.
18
                   And all of those meetings involved
19
    wyour testimony and your opinion in connection
20
      with this case?
21
22
             No.
                   What else did those meetings
23
                Your testimony and opinion in
24
      connection with other cases?
25
```

```
1 A. Yes.
```

- Q. What other cases?
- 3 A. Well, that would be a long list. Do you
- 4 want to discuss them all?
- 5 📉 🔪 Q. Yes.
- 6 A. Originally a case in San Diego known as
- 7 Cordova; cases from New York; Minnesota;
- 8 Arkansas; and California.
- Q. You've listed five geographical
- 10 greas. Are there more than five cases within
- 11 those geographical areas?
- 12 A. I believe there are.
- 13 Q. How many total cases have you been
- 14 metained as an expert in?
- 15 I believe only the ones that I mentioned
- 16 to you. Some of them I believe are Attorney
- 17 General cases. Some of them involve class action
- 18 mases. Some f them are by I believe counties
- 19 and cities in California.
- Q. If I ask you for the number of
- 21 cases, you're unable to tell me the precise
- 22 number of cases that you've been retained to
- 23 testify as an expert in?
- 24 A. I believe I've only been retained to
- 25 testify as an expert in this particular case

- 1 here. I have done research concerning the other
- 2 cases I have mentioned to you.
- 3 Q. How many other cases? For example,
- 4 when you were going through your list, you told
- 5 me New York cases.
- 6 A. Mm-hmm.
- Q. Which leads me to believe there's
- 8: more than ene case in New York. My question is,
- 9 is there more than one case in New York?
- 10 A. I believe there is one -- it is a class
- 11 action case in New York.
- 12 Q. So is there one case in New York,
- 13 one case in Minnesota, one case in Arkansas, one
- 14 case in California and another case in San Diego?
- 15 I'm not sure about how many cases in
- 16 🖋 California 🚜
- 17 Q. And you've also been retained in
- 18 case in Pennsylvania?
- 19 That's correct.
- Q. So at a minimum you have six
- 21 mengagements with the defendants in this case
- 22 melated to other cases as well?
- 23 A. I have done research concerning those
- 24 cases that I mentioned to you. I've done
- 25 historical research about smoking and public

```
1 awareness in those states that I mentioned to
```

- 2 you.
- Q. Right. But you don't understand at
- 4 this point in time whether or not you are going
- 5) to be asked to actually offer testimony in
- 6 connection with those other cases?
- 7 That's correct.
- Q. Have you submitted an invoice to the defendants for the work performed in connection
- 10 with this case?
- 11 Page past I have, for work that I have
- 12 already done, yes.
- 13 Q. Have you provided those invoices to
- 14 /////////us?
- 15 Not that I recall.
- Q. Do you recall the total amount of
- 17 he invoices that you submitted to the defendants
- 18 or your work in connection with this case?
- 19 Not exactly. But it's probably in the
- neighborhood of 3 to \$4,000.
- Q. And you've been paid for that?
- 22 A. Yes.
- Q. Have you submitted invoices to the
- 24 defendants in connection with the work that you
- performed in connection with all of the

- litigation matters that you previously
- 2 identified?
- 3 A. Yes.
- Q. And have you been paid for all of
- 5 those?
- 6 Yes.
- Q. Can you give me an idea as to how
- 8 much in total was submitted by way of invoice to
- 9 the defendants for all of the work that you've
- 10 performed in all of the cases where you have been
- 11 retained?
- 12 A. Retained with respect to what?
- 13 Q. Retained with respect to either
- 14 doing research, retained with respect to offering
- 15 n opinion tetained with respect to providing
- 16 Sestimony.
- 17 . Somewhere between 25 and \$35,000.
- Q. When was the first invoice that you
- 19 www.ubmitted to the defendants in connection with
- 20 oing work in any of the five litigation matters
- 21 * that you've previously identified?
- 22 . I don't recall specifically.
- Q. Do you recall submitting an invoice
- 24 in 1993?
- 25 A. Perhaps. I don't have a recollection.

```
1 Probably within six or so months after I began to
2 do my research, yes.
```

- Q. Do you have copies of all the
- 4 invoices that you've submitted to the defendants
- 5 in connection with all litigation matters in
- 6 which you've been retained by the defendants?
- 7 A. I probably do.
- 8 Could you provide those to
- Mr. Purvis so that he in turn can provide them to
- 10 " "us?
- 11)MMR. PURVIS: Paul, I would just like
- 12 to say for the record, I know this isn't your
- 13 Case it's my case, but it's my understanding
- that we have provided you with, frankly, more
- than your witnesses have provided us in response
- 16 to our requests.
- And I will leave it to Mr. McConnell
- 18 and others to determine whether we will provide
- 19 additional materials. But it's something neither
- 20 you nor I are involved in. I just want to make
- 21 💘 that clear.
- 22 BY MR. LEFKOWITZ:
- Q. Well, just so that we are clear,
- 24 Professor Parrish, I would like you to provide
- 25 the invoices I just asked you about to

- 1 Mr. Purvis.
- 2 A. Well, Mr. Purvis may already have copies,
- 3 because I generally submit my invoices, as you
- 4 call them, to his law firm, and therefore I'm not
- 5 sure that I've kept copies of all of them.
- 6 Q. Whatever you have kept copies of I
- 7 would like you to provide to Mr. Purvis, and
- 8 We'll deal with the providing of the information
- 9 by Mr. Purvis to us in some other form or
- 10 proceeding
- 11 MR. PURVIS: Professor Parrish, I
- would just like to advise you that you are not
- 13 under any obligation to respond to
- 14 Mr. Lefkowitz's demands, and the lawyers will
- 15 Nammer that out.
- 16 BY MR. LEFKONTZ:
- Q. Qo you know Professor Theodore
- 18 wilson who is a history professor at the
- 19 Mniversity of Kansas?
- 20 Do I know him personally?
- 21 Q. Yes.
- 22 No.
- Q. Do you know him professionally?
- 24 A. Not really.
- Q. Had you ever heard of him?

```
1 A. Yes.
```

- Q. In what connection have you heard of
- 3 him?
- 4 A. I believe I have heard -- I have some
- 5 Friends at the University of Kansas who have
- 6 mentioned him.
- Q. In what context?
- 8 A. He's a colleague of theirs.
 - Q. In what context have they mentioned
- 10 Mim?

9

- 11 A. I don't recall exactly. But I have -- I
- 12 have friends at the University of Kansas who
- 13 share -- he s a colleague of theirs in the same
- 14 department there.
- 15 Pave you ever seen anything that
- 16 Professor Wilson has written or authored?
- 17 / A. No, Lhaven't.
- 18 Q. Now, when you first talked to
- 19 pr. Purvis in 1993 regarding potentially being
- 20 retained by the defendants, did you consider a
- 21 methodology for the purposes of performing the
- 22 mindertaking that was described by Mr. Purvis?
- 23 A. A methodology that I would use in
- 24 undertaking any historical research, yes.
- Q. And what methodology is that?

- 1 A. Well, first of all, to read very broadly
- 2 the secondary literature relating to any
- 3 particular issue or topic, and then also to begin
- 4 to look at the primary source materials that
- 5) might be relevant to that particular topic.
- Q. So in connection with the engagement
- 7 that you and Mr. Purvis discussed, what types of
- 8 information had you deemed it appropriate to
- 9 gather and consider?
- 10 A. Are to referring specifically to the
- 11 Barnes, case or are you referring more broadly?
- Q. I'm referring at this point in time
- 13 broadly.
- 14 Mar. Well I began to read very generally in
- 15 the secondary literature concerning the history
- 16 of tobacco and the tobacco industry and
- 17 gigarettes in the United States.
- 18 Q. For what purpose?
- 19 In order to get a command of the general
- 20 historical terrain that already had been covered
- 21 by other scholars.
- Q. Once you read that general
- 23 information, what did you deem it appropriate to
- 24 do next?
- 25 A. I deemed it appropriate to begin to look

- 1 at some of the more primary source materials that
- 2 might have a bearing upon the topic of public
- 3 awareness concerning the health hazards of
- 4 tobacco and cigarettes specifically.
- Q. What would be a primary source
- 6 material?
- 7 A. There would be guite a long list of
- 8 primary source materials that one or I did look
- 9 at. Newspapers, for example; periodical
- 10 literature vernment documents; the personal
- 11 papers of valous public officials as well as
- 12 people in the private sector who were interested
- 13 about health and health related issues concerning
- 14 cigarettes.
- 15 That would be a sample of the kind
- 16 of primary sources that I looked at.
- 17 Q. Whose personal papers of what public
- 18 fficials you look at?
- 19 Well, it's quite a long list. Are you
- 20 sure you want me to go over that?
- 21 Q. Yes.
- 22 Well, for example, Senator Richard
- Neuberger of Oregon, who is one of the leading
- 24 Members of Congress in terms of that issue, I
- looked at his papers at the University of Oregon;

- also his wife, Maureen Neuberger.
- Q. What did those papers reveal?
- 3 A. They revealed legislative histories and
- 4 opinions by other members of the legislature
- 5 concerning various matters relating to the
- 6 tobacco industry and cigarettes.
 - Q. What were their opinions?
- 8 A. Praising Senator Neuberger for his and her
- 9 efforts on behalf of various legislative
- 10 endeavors example cigarette labeling.
- Q. When was Senator Richard Neuberger a
- 12 _ Senator?
- 13 A. In the '50s. 1950s.
- 14 What other personal papers of what
- 15 public officials did you examine?
- 16 A. Well 've also examined papers of Senator
- 17 Phillip Hart from Michigan; Senator Frank Moss of
- 18 🍍 📆 tah.
- 19 What did the papers of Senator
- 20 Phillip Hart reveal to you in connection with
- 21 your engagement?
- 22 Again, Senator Hart was among the leading
- 23 proponents of regulating in various ways the
- 24 advertising and the labeling with respect to
- 25 cigarettes.

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Q. What did the personal papers show to
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- 2 you?
- 3 A. That there was a high degree of interest,
- 4 for example by his constituents in Michigan, in
- 5 this issue. A lot of the mail was from
- 6 constituents.
- 7 You read mail that had been sent to
- 8 Senator Hart?
- 9 A. Yes.
- 10 Q. Bow many pieces of mail did you
- 11 read?
- 12 A. I received from the University of Michigan
- 13 Xeroxings of constituent correspondence.
- 14 How many such pieces of
- 15 correspondence?
- 16 A. I don't recall.
- 17 Q. More than a hundred?
- 18 Probably less than that.
- Q. How about Senator Frank Moss? What
- 20 did his personal papers reveal to you?
- 21 A. There I believe I received -- I got copies
- 22 f drafts of proposed legislation and also
- 23 Constituent correspondence.
- Q. I assume from your testimony that
- you did not travel to the University of Michigan

- to look at Senator Hart's personal papers?
- 2 A. That's correct.
- 3 Q. You made a request to somebody at
- 4 the University of Michigan to provide you copies
- 5 nof various information?
- 6 A. First of all I asked for the finding aid.
- 7 Most manuscript archives have finding aids for
- 8 particular collections which contain an inventory
- 9 of all the materials. I asked for the finding
- 10 aid, and that from that I could make a request
- 11 For partical files, particular materials.
- 12 Q. What requests did you make to the
- 13 Thiversity of Michigan in connection with the
- 14 files of Senator Hart?
- 15 I don't recall the specific files I asked
- 16 For, but I know on the basis of the finding aid I
- 17 pould identify the files I did wish to have
- 18 eroxed, a could eliminate 75 percent of the
- 19 collection.
- Q. How voluminous was the information
- 21 that you ended up receiving from the University
- 22 of Michigan?
- 23 A. It wasn't as voluminous as the materials,
- 24 say, in the Neuberger papers.
- Q. Well, how voluminous was it? Under

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1 200 pieces of paper?
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- 2 A. Oh, yes.
- 3 Q. Under 100 pieces of paper?
- A. Somewhere between 50 and 100 pieces of
- paper.
- Q. Was there a charge associated with asking the University of Michigan to do that?
- 8 A. Yes there was.
- Q. Do you recall what the charge was?
- 10 A. Oh was somewhere between 75 cents and
- 11 \$1.25 per **pøg**e.
- 12 And that was an expense that you
- 13 incurred?
- Absolutely.
- 15 Q. That was an expense that you
- 16 Jultimately Tlled the defendants for?
- 17 A. Abborutely.
- 18 Q. How many separate institutions did
- 19 you ask to provide you with the same type of
- 20 information that you asked the University of
- 21 Michigan to provide you in connection with
- 22 Senator Hart?
- 23 A. I would have to -- I'm not sure I can
- 24 recall them all. Certainly University of
- 25 Minnesota and University of Utah.

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1 Q. Same process was followed?
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- 2 A. Yes. In other cases I visited the archive
- 3 personally and had the Xeroxing done on the site.
- Q. Where did you personally visit the
- 5 archive?
- 6 A. Stanford University.
- Q. For the purposes of reviewing whose
- 8 personal papers?
- 9 A. The David Starr Jordan papers.
- 10 Q. Who is David Starr Jordan?
- 11 A. Former president of Stanford University.
- 12 Q. What did his papers reveal?
- 13 A. Than he was from time to time very active
- in the anti-cigarette movement around the time of
- 15 the First World War.
- 16 Q. What other archives did you
- 17 personally examine?
- 18 A. The University of Oregon, near Eugene.
- Q. And that was to obtain and review
- 20 the papers of Senator Neuberger?
- 21 A. Yes, both Richard Neuberger and Maureen
- 22 Neuberger. Yes.
- Q. What archives did you visit?
- 24 A. The National Archives here in Washington,
- 25 D.C.

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Q. Whose personal papers did you
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- 2 examine there?
- 3 A. I'm trying to recall now. I believe I
- 4 used some of their finding aids in order to
- 5) identify other collections across the country
- 6 that might be of relevance.
- Q. Did you focus --
- 8 A. Oh excuse me. Newspapers. They have
- newspapers at the Library of Congress which I've
- 10 also looked at.
- Q. In connection with this undertaking
- 12 of gathering information, did you focus on
- 13 individuals that had been anti-smoking,
- 14 anti Engarette, anti-tobacco individuals or
- 15 Entities?
- 16 A. Yes certainly did. Oh, I neglected to
- 17 mention to wow an archive -- that's all right.
- 18 Q. Why don't you go ahead and provide
- 19 me with that
- 20 A. Did I mention the University of Minnesota?
- Q. You did not mention University of
- 22 Minnesota.
- MR. PURVIS: Yes, he did.
- THE WITNESS: I believe I did.
- 25 BY MR. LEFKOWITZ:

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Q. Whose archives did you look at at
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- 2 the University of Minnesota?
- 3 A. The Anthony Zelaney papers.
- Q. Who was Anthony Zelaney?
- 5 A. Again, he was a turn of the century
- 6 anti-cigarette crusader. He was a professor at
- 7 the University of Minnesota who was very much a
- 8 part of the anti-cigarette crusade around the
- 9 time of the mirst World War.
- Q. In connection with any or all of
- 11 your engagements by the defendants in this case
- 12 or any of the other cases that you have
- 13 previously d us about, were you asked to do
- 14 any gublic opinion polling or sample?
- 15 A. . No.
- Q. Did the defendants in this case or
- 17 any of the other cases that you've told us about
- 18 their attorneys provide you with any
- 19 information to review or examine in connection
- 20 with your engagement?
- 21 A. No.
- 22 Q. Were you ever provided with
- 23 videotapes by Shook, Hardy & Bacon?
- 24 A. No.
- Q. Have you prior to today ever seen

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the deposition of Professor Wilson from the
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- 2 University of Kansas?
- 3 A. No.
- 4 Q. Have you ever discussed with anybody
- 5 prior to today the deposition of Professor
- 6 Wilson?
- 7 A. No.
- 8 Q. Have you ever seen an affidavit that
- 9 was prepared by Professor Wilson?
- 10 A. No.
- 11 Q. Mave you ever seen an affidavit or
- 12 statement prepared by any other historian in
- 13 connection with either this case, the cases that
- 14 you previously told us about where you had been
- 15 etained, or any other case of similar ilk
- 16 against the defendants in this case?
- 17 **a**. No.
- 18 MR. LEFKOWITZ: I would like to have
- 19 his marked.
- 20 (Parrish Deposition Exhibit Number 1
- 21 was marked for identification.)
- 22 MR. LEFKOWITZ:
- Q. I'm going to hand you what's been
- 24 marked as Parrish Exhibit 1, which is a
- 25 deposition notice with document request. Have

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you ever seen this document prior to today?
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- 2 A. I don't recall.
- 3 Q. You don't remember ever having seen
- 4 Parrish Exhibit 1 before?
- 5 A. I don't recall specifically. No.
- 6 MR. LEFKOWITZ: I would like to have
- 7 these documents marked as Parrish Composite
- 8 Exhibit 2 Allen, these are all of the documents
- 9 that were provided to Don Hildre by mail this
- 10 weekend from you.
- 11 THE WITNESS: Okay.
- 12 Parrish Deposition Exhibit Number 2
- 13 was marked for identification.)
- 14 BY MR. LEPROWITZ:
- Q. Professor Parrish, you have before
- 16 You a stack of documents that has been marked as
- 17 Parrish Composite Exhibit 2, and I ask you if you
- 18 recognize enat.
- 19 I will have to go through each of these
- 20 individually here.
- 21 Q. Why don't you take your time and do
- 22 ____that.
- MR. LEFKOWITZ: Why don't we go off
- 24 the record.
- THE VIDEOGRAPHER: We're going off

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the record. The time is 10:16 a.m.
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- 2 (Discussion off the record.)
- THE VIDEOGRAPHER: We are back on
- 4 the record. The time is 10:19 a.m.
- 5 BY MR. LEFKOWITZ:
- Q. Professor Parrish, you have had an opportunity to review Parrish Composite Exhibit
- 2 ?
- 9 A. Yes
- 10 Q. an you identify Parrish Composite
- 11 Exhibit 2 For us?
- 12 A. These are Xeroxes of magazine articles, of
- 13 newspaper exticles, and of various official
- 14 government documents.
- Q. What do those documents in their
- 16 / entirety constitute?
- 17 A. These I believe form the basis of the
- 18 source material that I used in preparing the
- 19 affidavit in this case, in the Arch case. I
- 20 quess it's now known as Barnes.
- 21 Q. And when you refer to your affidavit
- 22 min connection with this case, you're referring to
- what we're going to mark as Plaintiff's Exhibit
- 24 3?
- 25 (Parrish Deposition Exhibit Number 3

```
was marked for identification.)
 1
 2
      BY MR. LEFKOWITZ:
 3
                    Do you have before you Parrish
              Q.
      Exhibit 3?
                    MR. PURVIS:
                                 For the record, this is
      not Mr. Paris's affidavit. This is his expert
      report.
 နားမ
                    THE WITNESS:
                                  This is a CV.
      my CV.
     BY MR. LEEKOWITZ:
10
             Q. Did you prepare an affidavit in
11
      connection with this case?
12
13
                    did.
                    And you've also prepared an expert
15 report?
16
             Yes
17
                    Parrish Exhibit 3 is the expert
     18
                   It's also my CV.
19 ****
20
                   Right. I'm going to hand you what
21
      we're going to mark as Parrish Exhibit 4.
22
                    (Parrish Deposition Exhibit Number 4
23
      was marked for identification.)
24
      BY MR. LEFKOWITZ:
                   You have before you, Professor
2.5
             Q.
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1 Parrish, Exhibit 4?
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- 2 A. I do.
- 3 . Q. That's an affidavit that you
- 4 prepared in connection with a New York case in
- 5 which you've been retained?
- 6 A. I would have to take a moment to review
- 7 it
- 8 Yes. It is an affidavit I prepared.
- Q. And you prepared an affidavit like
- 10 Farrish Exhibit 4 in connection with this case,
- 11 Arch case?
- 12 A. Whait do you mean by "like"?
- 13 Q. Well, Parrish Exhibit 4 is an
- 14 affiðavit.
- 15 That's correct.
- Q. Q. ve also prepared an affidavit in
- 17 @ connection with the Barnes or Arch case?
- 18 Correct.
- Q. And is the affidavit that you
- 20 prepared in connection with the Barnes or Arch
- 21 case similar in format to the document that we've
- 22 marked as Parrish Exhibit 4?
- 23 A. In format, yes.
- Q. Did you write the affidavit in New
- York which we've marked as Parrish Exhibit 4?

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1 A. Did I write this affidavit here?
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- Q. Yes.
- 3 A. Yes, I did.
- Q. Did anybody assist you in connection
- 5 with that?
- 6 A. No.
- Q. Did anybody at any time offer any
- 8 suggestions or comments with respect to any draft
- 9 of what ultimately became Parrish Exhibit 4?
- 10 %. Not that I recall, no.
- 11 Q. So in other words Parrish Exhibit 4
- 12 as it exists before you is 100 percent your work
- 13 product?
- 14 That s correct.
- Q. At page 2 of Parrish Exhibit 4 --
- 16 MR. McCONNELL: You don't have an
- 17 extra copy of that, do you, Paul?
- 18 MR. LEFKOWITZ: Yes.
- MR. McCONNELL: Thanks very much.
- 20 BY MR. LEFKOWITZ:
- Q. At page 2 of Parrish Exhibit 4, at
- 22 the bottom of the page, this's a sentence that
- 23 reads, "When exploring popular understanding and
- 24 common knowledge about a subject such as
- 25 cigarettes and addiction, good historians will

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keep in mind this distinction between what
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- 2 trained scientists knew and expressed and what
- 3 the man or woman in the street assumed to be the
- 4 truth of the matter."
- 5 Do you see that language?
- 6 A. Yes.
- Q. Did you write that?
- 8 A. Yes
- 9 MR. LEFKOWITZ: Let's mark this as
- 10 Parrish Exhibit 5.
- 11 Parrish Deposition Exhibit Number 5
- 12 was marked for identification.)
- 13 BY MR. LEFKOWITZ:
- 14 Do you have before you Parrish
- 15 **xhibit** 5?
- 16 A. Yes
- Q. And that purports to be the
- 18 ffidavit heodore Wilson?
- 19 That's what it says.
- Q. I would like you to turn to page 3.
- 21 And I would like you to look at the last sentence
- 22 min paragraph 4, which reads as follows: "When
- 23 exploring popular understanding about a subject
- such as cigarettes, health and addiction,
- 25 historians keep in mind the distinction between

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what trained scientists knew and expressed and
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- what the man or woman in the street assumed to be
- 3 the truth of the matter."
- 4 A. Mm-hmm.

- Q. Would you agree with me that that is
- 6 identical to the language that we just looked at
- 7 in your affidavit in the New York case which is
- 8 marked as Rarrish Exhibit 4?
 - MR. McCONNELL: Objection.
- 10 Misstates record.
- 11 THE WITNESS: Well, there are some
- 12 🛌 differences in terms of words and phrasing.
- 13 BY MR LEFKOWITZ:
- 14 Let's go through the differences.
- 15 A. Well believe mine refers to "subjects
- 16 such as cicarettes and addiction. " This says --
- 17 Q. Cigarettes, health."
- 18 A. "Subjects such as cigarettes, health and
- 19 addiction "
- 20 Q. Right. So there's an insert of the
- 21 word "health," right?
- 22 Mm-hmm. Yes. That is a difference.
- Q. Any other differences?
- 24 A. Not that are immediately apparent.
- Q. Well, Professor Wilson's affidavit

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1 refers to historians, and your affidavit refers
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- 2 to good historians, right?
- 3 A. Mm-hmm. Okay. Another difference.
- Q. Can you explain for me the
- 5 similarities between that sentence in Professor
- 6 Wilson's affidavit and the sentence appearing in
- 7 vour own affidavit?
- 8 MR. PURVIS: Objection.
- 9 THE WITNESS: Good historians think
- 10 Lalike.
- 11 BY MR. LEFRONTTZ:
- 12 Q. Using identical sentences and the
- 13 identical words in the identical sentences?
- 14 MR. PURVIS: Objection to the form.
- 15 MR. McCONNELL: Objection. Can we
- 16 get a stipulation in on the record as we have at
- 17 previous depositions, that one objection by one
- 18 defense counsel is appropriate for all defense
- 19 counsel?
- 20 MR. LEFKOWITZ: Absolutely.
- 21 MR. McCONNELL: Thank you.
- 22 MR. LEFKOWITZ:
- Q. Can't explain it?
- 24 A. No.
- 25 O. You never saw Professor Wilson's

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affidavit before you prepared your own?
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- 2 A. No.
- Q. Do you have any reason to believe
- 4 that Professor Wilson saw your affidavit prior to
- 5 preparing his?
- 6 A. I have no knowledge of that.
- 7. O. You never talked to Professor Wilson
- 8 about it?
- 9 A. I have never laid eyes on Professor
- 10 Wilson. I may e never met the man.
- Q. Let's refer to Parrish Exhibit 3,
- 12 which is your expert report. This is dated June
- 13 27, 1997?
- 14 A. Yes
- Q. Prior to June 27, 1997, have there
- 16 Deen prior afts of what ultimately became
- 17 Parrish Exhibit 3?
- 18 A. Of my expert report?
- 19 Q. Yes.
- 20 Ma. No.
- Q. So in other words Parrish Exhibit 3
- 22 s the one and only expert report that you
- 23 prepared in connection with this case?
- 24 A. Yes.
- Q. Did you ever submit it to any of the

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1 attorneys for the defendants for their review,
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- 2 comment, and criticism?
- 3 A. No. This was -- this report, this
- 4 statement was read to me over the telephone by
- Allen Purvis, and it is a summary of the research
- 6 that I did, or of the affidavit. And I said that
- 7 is a fine summary, and I signed that report.
 - Q. So in other words Parrish Exhibit 3
 - wasn't prepared by you?

No

- 10 A
- 11 Q. It was prepared by Mr. Purvis?
- 12 A. Correct.
- 13 Q. And after Mr. Purvis read Parrish
- 14 Exhibit 3 to you over the phone and you agreed
- 15 that it was fine, a copy was sent to you, you
- 16 🤦 signed it?
- 17 A. That is right.
- 18 Q. And sent it back to Mr. Purvis?
- 19 A. That's correct.
- Q. Did you do anything for the purposes
- 21 of preparing for today's deposition?
- 22 A. What do you mean by "preparing"?
- Q. Did you read any of your research
- 24 prior to coming to Washington for this
- 25 deposition?

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1 A. I reviewed certainly my affidavit, and I
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- 2 reviewed some of the underlying source documents,
- 3 yes.
- 4 Q. Did you review any pleadings or
- 5 depositions in this case?
- 6 A. Yes.
- Q. Do you recall what you reviewed?
- 8 At lone point I believe I read the first
- 9 complaint that was filed in the Arch case.
- 10 Q. Anything else?
- 11 I rewelled the amended complaint in what
- 12 is now called the Barnes case.
- 13 Q. That's it?
- 14 No.
- Q. Okay. Why don't you give me a list.
- 16 A. Oh, want --
- 17 Q. Instead of my keeping on saying
- 18 what else you can just give me a list of what
- 19 ou did review.
- 20 I read depositions by plaintiffs in the
- 21 Barnes case.
- Q. What did you glean from the
- 23 depositions of the plaintiffs in the Barnes case?
- 24 A. That's a very broad question.
- 25 Q. Well --

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1 A. They were very -- they were revealing
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- about a number of things. Would you be more
- 3 specific?
- 4 Q. Sure. Let me ask you this. When
- was the last time that you read one of the
- 6 depositions of the plaintiffs in the Barnes case?
- 7 Was that for the purposes of preparing for this
- 8 deposition?
- 9 A. Yes
- 10 Q. So that would have been within the
- 11, last week of so?
- 12 A. Yes
- 13 Whose depositions did you review?
- 14 A. I reviewed the depositions of Ms. Potts,
- 15 Ms. McNall Ms. Saltzman, and I believe Splivak,
- 16 as well as the depositions of members of their
- 17 Zamilies.
- Q. In Parrish Exhibit 3, you used the
- 19 term "public awareness."
- 20 A. Mm-hmm.
- 21 Q. Right?
- 22 . Yes.
- Q. What does the term "awareness" mean?
- 24 A. Well, I'm not a psychologist, so I
- 25 couldn't give you a scientific definition. But

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from an historian's point of view it would mean
```

- 2 understanding, cognitive understanding of a
- 3 particular issue or event.
- To be aware of is to be cognizant
- of, to have some understanding of the event and
- 6 its consequences.
- Q. In order to focus on
- 8 understanding -- strike that. Understanding
- 9 implicates an individual's state of mind, does it
- 10 _____not?
- 11 I'm not quite sure what the question is.
- 12 Q. well, you've testified that you
- 13 equate the terms "awareness" with
- 14 "understanding." True?
- 15 A. Well one may have an awareness of a
- 16 particular event or an activity and not
- 17 hecessarily have an understanding of that event.
- 18 suppose there is a distinction.
- 19 Q. What I'm trying to understand is,
- 20 when you use the term "awareness," I'm trying to,
- 21 for lack of a better word, understand exactly
- 22 what you mean by that term. So in other words
- you are not equating awareness with
- 24 understanding.
- 25 Can you give me some synonyms for

```
1
      "awareness" in the sense that you used it?
 2
             I'm not a linquist. I'm not sure I could
      provide you with an accurate definition.
 3
                   Well, explain to me what "awareness"
 4
      means to you.
 5
             It means that one, for example, would
 6
 7
    recognize a particular concept or a particular
      event or that one would recognize it and have
 8
      some sense of its meaning and significance.
 9
                  MR. LEFKOWITZ: Can I have the
10
     minswer read back, please?
11
                    (The record was read as requested.)
12
             LEFKOWITZ:
         MR.
13
                   So to you, Professor, awareness
14
     eally has two components; one is the recognition
15
    of a concept or event, and second, the ability to
16
    🥙 alssess sometry.pe of meaning or significance to
17
    that concept or event?
18
                   MR. PURVIS: I object to form.
19
20
                   THE WITNESS: I'm sorry.
                   MR. PURVIS:
21
                                 That's all right.
22
      head and answer if you can.
23
                   THE WITNESS: Yes, that would be
24
             I would also add that it also probably
```

includes some sense that one also knows what

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other people think and believe about a particular
```

- 2 event or a particular concept.
- 3 So that I suppose I would broaden
- 4 the notion of awareness to include also what
- 5 > ther people think and believe about -- that one
- 6 is aware about what other people hold to be the
- 7 truth about a particular matter.
- 8 MBY MR. LEFKOWITZ:
- 9 D. Šo awareness involves how a person
- 10 appreciates or understand an event?
- 11 A. That a fair statement.
- 12 Q. And would you agree with me that how
- 13 one person appreciates an event can differ from
- 14 how another person appreciates an event?
- 15 Yes that's true -- possible. Yes.
- Q. So the term "awareness" has to focus
- 17 n an individual's mental or thought processes.
- 18 mair statement?
- 19 M. Yes.
- Q. What does the term "public" mean?
- 21 * When you use the term "public awareness," are you
- 22 sing "public" in the sense of popular?
- 23 A. Yes, I suppose I would use the concept of
- shared understandings or shared meanings or
- 25 shared values about a particular topic or issue

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in the sense that they are broadly held in the
```

- 2 culture or in the population. They are shared
- 3 understandings, shared values, whether true or
- 4 false.
- Q. So in other words when you refer to
- the term "public awareness," you're talking about
- 7 things that lots of people understood?
- 8 A. Correct.
- 9 How does one measure popular
- 10 awareness?
- 11 Well think that for a historian there
- 12 are a number of ways. One can look, for example,
- 13 mat newspaper magazines, sources in what I would
- 14 call the public domain, the public media that
- 15 communicate messages broadly to the population.
- And of course the media varies from
- 17 Lime to time. The 20th century media is
- 18 different from the 19th century, from the
- 19 colonial period.
- Q. Can public awareness be affected,
- 21 shaped or manipulated?
- 22 It can be influenced, certainly.
- Q. How can public awareness be
- 24 influenced?
- 25 A. By using the very same sources of the

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1 media, I would imagine.
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- Q. Are you familiar with the term
- 3 "disinformation"?
- 4 A. Not really. Is there a specific meaning
- 5 to that?
- 6 Q. You have no -- if I use the word or
- 7 say to you, do you know what disinformation is,
- 8 you don't know what I'm talking about?
- 9 A. It would have a number of meanings for me.
- 10 Q. what would it mean to you?
- 11 It could mean anything from a deliberate
- 12 falsehood to a contending interpretation of a
- 13 particular ent or issue. Disinformation could
- 14 mean any of those things. It would cover a wide
- 15 spectrum of bings.
- 16 Q. Do you know what propaganda is?
- 17 Probably, yes.
- Q. What does propaganda mean to you?
- 19 It could mean an exaggerated statement
- 20 moncerning a particular issue or a particular
- 21 event, something designed to persuade or to
- 22 onvince people of a particular position, a
- 23 particular point of view on a matter.
- Q. Does propaganda affect public or
- 25 popular awareness?

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1 A. Well, I suppose, yes, if it is
```

- 2 broadly disseminated.
- 3 Q. In your expert report which is
- 4 Parrish Exhibit 3, in the third paragraph on the
- 5 first page, you use the word "impacted." Do you
- 6 see that?
- 7 A. Mm-hmm.
- 8 Q. What did you mean by the word
- 9 impact" or "impacted"?
- 10 A. Read that sentence I meant how a
- 11 marticular social, cultural or technological
- 12 development might affect -- I should have maybe
- 13 "used the world "affected" or what role it played
- 14 In terms of the consumption of cigarettes.
- Q. Qo "impact" and "effect" are pretty
- 16 Synonymous?
- 17 . I would think so.
- MR. LEFKOWITZ: Why don't we take a
- 19 reak for a short period.
- THE VIDEOGRAPHER: We're going off
- 21 the record. The time is 10:44 a.m.
- 22 (Recess.)
- THE VIDEOGRAPHER: We are back on
- 24 the record. The time is 10:56 a.m.
- 25 BY MR. LEFKOWITZ:

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1 Q. Professor Parrish, referring to
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- 2 Parrish Exhibit 3, in the third paragraph you
- 3 talk about a variety of developments that
- 4 impacted cigarette consumption.
- 5 X. Yes.
- 6 Q. Now, would you agree with me that
- 7 things that discourage cigarette consumption
- 8 Impact cigarette consumption?
- 9 A. Yes.
- 10 Q. Ind would you agree with me that
- 11 hings that courage cigarette consumption
- 12 ; impact cigarette consumption?
- 13 A. Possibly.
- 14 How did you go about determining
- 15 hat is common knowledge, as you use that term on
- 16 the second page of Parrish Exhibit 3?
- 17 A. I looked at a variety of sources of
- 18 mformation at would have been broadly
- 19 vailable to people such as newspapers,
- 20 magazines, television, motion pictures of the
- 21 20th century, other types of literature that were
- 22 roadly circulated; and also at statements that
- 23 people made about their awareness or
- understanding of cigarettes and tobacco.
- Q. Would you agree with me that a

- person's knowledge is individualized?
- 2 A. To some extent.
- Q. Would you agree with me that
- 4 knowledge also focuses on mental processes?
- 5 ≫ NA. Yes.
- 6 Q. Would you agree with me that
- 7 knowledge depends upon an ability that a person
- 8 has to distill information?
- 9 A. Possibly, yes.
- 10 Q. Bow did you determine that awareness
- 11 that cigarette smoking can be addictive became so
- 12 widespread that the potential risks associated
- 13 with smoking must be considered part of the
- 14 kommon knowledge?
- 15 From a variety of sources that I looked
- 16 at. The concept or the use of the word
- 17 addiction " or "habit forming" with
- 18 sespect to arette smoking was very frequently,
- 19 commonly used in various media sources.
- Q. Is it fair to say that because there
- 21 was a lot of information in the public domain
- 22 indicating that smoking cigarettes had a harmful
- 23 effect, that therefore people must understand or
- appreciate the fact that smoking is bad for you?
- 25 A. I think there's a very high correlation

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between the information that is provided and the
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- 2 extent to which that information is absorbed,
- 3 yes.
- Q. Isn't that exactly how you arrived
- 5 at your opinion in this case?
- 6 A. Yes.
- Q. Your opinion in this case is based
- 8 upon the fact that there was lots of information
- 9 available from lots of different sources saying
- 10 ____ hat cigare smoking is bad for you?
- 11 Correct.
- 12 Q. You say on page 2 of Parrish Exhibit
- 13 3 that this common knowledge was comprised not
- 14 only of information concerning the claimed risks
- 15 and hazards associated with smoking, but also
- 16 Incorporated and reflected in cigarette
- 17 advertising and statements made by the tobacco
- 18 andustry.
- 19 You say that, right?
- 20 Yes.
- Q. What information did you examine
- 22 hat comprised cigarette advertising and
- 23 statements made by the tobacco industry that was
- incorporated and reflected in the common
- 25 knowledge?

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1 A. For example, if you read the warning
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- 2 labels on cigarette packages beginning in 1966 or
- 3 1969, you would have had certainly that kind of
- 4 awareness. And many of the plaintiffs in the
- 5 Barnes case in their depositions testified to
- 6 that fact.
- 7 Q. What else other than warning labels?
- 8 A. Pardon me?
- Q. What else other than warning labels?
- 10 A. Cigarante te advertisements were required
- 11 certainly by the 1970s to carry information
- 12 concerning nicotine and tar levels, which would
- 13 have alertical people that those are not good for
- 14 you
- 15 Q. sn't it true that warning labels
- 16 and information on cigarettes setting forth
- 17 Licotine and tar levels was required by the
- 18 government?
- 19 . I believe so.
- Q. What other advertising and
- 21 ** statements made by the tobacco industry were
- 22 ncorporated and reflected in the common
- 23 knowledge that you've testified to previously?
- 24 A. Well, for example, there is the -- what
- was referred to as the Frank Statement by the

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tobacco industry in the 1950s, which if read in
```

- one fashion could be seen as a red flag to
- 3 consumers that research needs to be carried on
- 4 with respect to health issues concerning
- 5 cigarettes.
- 6 Q. Anything else?
- 7 MR. PURVIS: I object to form.
- THE WITNESS: Those are the ones
- 9 that immediately occur to me.
- 10 BY MR. LERMANTTZ:
- Q. Is there anything in Parrish
- 12 Composite Exhibit 2 that constitutes cigarette
- 13 advertising and statements made by the tobacco
- 14 industry as referenced in page 2 of your expert
- 15 report which is Parrish Exhibit 3?
- 16 (A. I would have to review this. I used a
- 17 number of documents and cited a number of things,
- 18 and I don't recall specifically. You're
- 19 referring to material that was produced,
- 20 authorized, sponsored by the tobacco industry, is
- 21 that the question?
- 22 Q. Well, I'm talking about cigarette
- 23 advertising and statements made by the tobacco
- 24 industry. I mean, it seems to me, Professor --
- let me sort of clarify what I'm looking for here.

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1 It seems to me that your opinion is that it was
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- 2 part of the common knowledge that smoking
- 3 cigarettes is bad for you, right?
- 4 A. I would have to ask you to rephrase that
- 5 in terms of what time period you're referring to
- 6 here.
- Q. Well, let's make it real simple.
- 8 Let's look at Parrish Exhibit 3.
- 9 A. Okay.
- Q. Qkay? And you say in the first
- 11 pentence of page 2 what you expect to testify
- 12 about, and that's your opinion, right?
- 13 A Yes
- 14 And you refer to the fact that it is
- 15 mommon knowledge that cigarette smoking has risks
- 16 and can be addictive, right?
- 17 Mm-kmm
- Q. Q. also say in the next
- 19 sentence that cigarette advertising and
- 20 statements made by the tobacco industry are part
- 21 of that common knowledge, or form a basis for
- 22 hat common knowledge.
- 23 A. Mm-hmm.
- Q. What I'm trying to find is what
- cigarette advertising and statements you're

```
referring to other than those that you've told us
```

- about that were considered by you in arriving at
- 3 your opinion.
- 4 A. And I --
- 5 Q. And I'm asking whether or not
- 6 prospection of particular specifically Partick Exhibit or Partick Composite
- 7 Exhibit 2 contains that information.
- B A. I told you those particular sources that I
- 9 pelieved from the industry did reflect that
- 10 concern. Eferred to the Frank Statement. I
- 11 referred to the warning labels and also to the
- 12 advertising warnings with respect to nicotine and
- 13 tar kewels
- 14 And you can think of nothing else
- other than those three points at this time?
- 16 A. Not mmediately, no.
- Q. Pid your research disclose to you
- 18 the position that the tobacco companies and their
- 19 executives took with respect to cigarettes being
- 20 either addictive or carrying potential health
- 21 🦎 risks?
- 22 That was not an area of my research.
- Q. Why not?
- 24 A. It was not an area concerning public
- awareness, that I was undertaking research in

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that particular area.
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- Q. Well, isn't it true that in the
- 3 course of your research you found information
- 4 that the tobacco companies typically opposed
- 5 legislation seeking to place constraints on the
- sale of cigarettes or the consumption of
- 7 cigarettes in public places?
- 8 A. Yes, there is testimony to that effect.
- Q. 🛴 And you found that?
- 10 A. In government testimony, yes.
- Q. Jid that information in any way
- 12 impact your opinion in connection with this case?
- 13 A. No.
- 14 Q. Why is that?
- 15 A. Well pecause I was interested in
- 16 Dresearching the issue of public awareness
- 17 concerning the health hazards of cigarettes and
- 18 the potential of cigarettes to promote addiction
- 19 to tobacco products.
- Q. Well, is it fair to say that the
- 21 information that you examined -- strike that.
- 22 ou have arrived at the opinion that there was a
- 23 public awareness that cigarette smoking can be
- 24 addictive, right?
- 25 A. That's correct.

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Q. And that opinion is based upon
```

- various newspaper reports and other information
- 3 that appeared throughout the past number of
- 4 years, right?
- 5 A. Correct.
- 6 Q. Is it not true and didn't your
- 7 research disclose that the tobacco companies have
- 8 consistently taken the position that cigarette
- 9 smoking is not addictive?
- 10 A. I'm ware of those statements, yes.
- 11 Q. So in other words there's a body of
- 12 information in the public domain that says
- 13 cigarette shoking is addictive, right?
- 14 Absolutely.
- Q. And you looked at that in connection
- 16 with your openion, right?
- 17 A. Absolutely.
- 18 Q. And there's a body of information in
- 19 the public domain that says cigarette smoking is
- 20 not addictive?
- 21 A. I am familiar with some of that
- 22 iterature, yes.
- Q. And you didn't consider the body of
- information in the public domain that says
- cigarette smoking is not addictive in arriving at

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1 your opinion?
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- 2 A. I certainly looked at it. I'm not sure
- 3 what you mean by consider it. I certainly am
- 4 aware of it and I certainly did look at
- 5 congressional testimony and at other material,
- 6 yes.
- Q. Well, you're aware that the tobacco
- 8 companies have consistently maintained that
- 9 cigarette smoking is not addictive, right?
- 10 A. Correct.
- 11 And that position has been taken
- 12 publicly, right?
- 13 A. I believe it has.
- 14 And the fact that that information
- 15 has been taken publicly impacts on people's
- 16 knowledge, htt that true?
- 17 A. It may
- Q. So in other words people at one time
- 19 vill read newspaper articles saying cigarette
- 20 smoking is addictive and at the same time be
- 21 exposed to information disseminated by cigarette
- 22 companies saying cigarette smoking is not
- 23 addictive?
- 24 A. Correct.
- Q. So in other words people are being

```
provided information that is inconsistent, fair
 1
 2
      statement?
 3
             Yes.
                   So in other words, in completing
 4
      your engagement you were not asked to consider
 5
      information disseminated by tobacco companies
 6
      rebutting any claims that cigarette smoking was
 7
      harmful or addictive?
 8
                   MR. PURVIS: I object to the form.
 9
                  HE WITNESS: You are asking me that
10
        was not asked?
     BY MR. LEFKOWITZ:
12
13
               wasn't asked with respect to how I would
14
       onduct my medearch. I conducted my research
     according to what I believe to be my proper
16
17
      methods for going about that.
                So in completing your engagement,
18
             Q.
    you did not consider information disseminated by
    cobacco companies rebutting the claims that
20
    cigarette smoking was harmful or addictive?
21
22
             I certainly read -- I read a great deal of
```

that material. Yes, I did. If you mean by

"consider" did I read it, did I absorb it, the

answer is yes.

23

24

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Q. But it did not affect your opinion?
```

- 2 A. That's absolutely correct.
- 3 ____Q.__Why is that?
- A. Because it would not have made a scintilla 5 of difference.
- Q. Why have you arrived at that
- 7 opinion?
- 8 A. Because the amount of information in the
- 9 public domain which, whether you're speaking
- 10 about newspapers or whether you're speaking about
- 11 high school health textbooks, is so voluminous
- 12 and so negative with respect to the consequences
- 13 of smoking that I believe anything that the
- 14 tobacco companies might have said would not have
- 15 had much of an impact.
- 16 Q. So your opinion is because there was
- 17 more information in the public domain saying
- 18 cigarette king is bad for you than there was
- 19 information saying cigarette smoking won't harm
- you, your opinion is that by the sheer weight,
- 21 most people believed that cigarette smoking was
- 22 harmful?
- 23 A. That's correct. And I believe that's true
- 24 if you read the depositions of the plaintiffs in
- 25 this case.

```
Does an historian normally weigh
 1
              ο.
 2
      conflicting evidence?
                    That's an obligation.
 3
      Α.
                    Have you ever weighed conflicting
 4
      evidence --
                   strike that.
                    MR. LEFKOWITZ:
                                     This will be Parrish
 6
      Exhibit 6.
                    (Parrish Deposition Exhibit Number 6
      was marked for identification.)
      BY MR. LERKOWITZ:
10
                  You have before you Parrish Exhibit
11
12
13
                    Have you ever seen Parrish Exhibit 6
     before?
                  ossible.
                              I've read a lot of
             It'
      congressional testimony going back to the First
17
      World War.
18
                    Do you recall reading the testimony
19 🔉
     of Jim Johnstone, chairman and CEO of R. J.
20
      Reynolds Tobacco Company?
21
             Not specifically, no.
22
23
                    You don't recall reading that?
24
             It's very likely that I did, but as I say,
```

I've read so many pieces of testimony by both

```
1 House and Senate committees going back to 1917,
```

- 2 1918, that I could not give you a positive answer
- 3 that I've read this particular piece of testimony
- 4 by Mr. Johnston.
- Q. Let's take a look at Parrish Exhibit
- 6 7
- 7 (Parrish Deposition Exhibit Number 7
- 8 was marked for identification.)
- 9 BY MR. LEFKOWITZ:
- 10 Q. Professor, you have before you
- 11 Parrish Exhapit 7. Have you ever seen this
- 12 before?
- 13 A.
- 14 You didn't encounter Parrish Exhibit
- 15 in the course of performing the research you're
- 16 🧷 been telling us about?

......NO ...

- 17 A. If It was a statement that is printed or
- 18 was printed in conjunction with these hearings in
- 19 the House, there is a strong possibility I may
- 20 may read it. But as I say, I have read so many
- 21 Volumes of congressional testimony that it's
- 22 mpossible for me to say precisely if I have read
- 23 this.
- Q. Do you recall that in 1994 various
- 25 representatives from various tobacco companies

- 1 testified before Congress?
- 2 A. Yes, I'm aware of that.
- Q. And do you recall hearing or reading
- 4 that various tobacco companies at that time took
- 5 the public position that cigarette smoking was
- 6 not an addiction?
- 7 A. Yes, I do recall that.
- Q. Do you recall that the testimony of
- 9 those tobacco company executives received media
- 10 coverage?
- 11 Yes, At did.
- 12 Q. Do you recall that it appeared on
- 13 the evening news, national news?
- 14 A. I do recall that, yes.
- 15 Q. Is it your testimony that the
- 17 The effect that cigarette smoking is not
- 18 addictive and not affect or impact popular
- 19 waveness regarding the addictive nature of
- 20 cigarette smoking?
- 21 A. I have no knowledge of that. I mean, that
- 22 malls for a conclusion on my part that I would
- 23 not make. I don't know how I would -- how I
- 24 would draw that conclusion, on what basis would I
- 25 draw that.

```
Well, your testimony previously has
 1
             0.
      been that media coverage to the effect that
 2
      cigarette smoking is harmful for you impacts
 3
      popular or public awareness.
 4
 5
            Correct.
                  Would not the converse also be true,
 6
            Ο.
      that media attention or public statements saying
 7
      that cigarette smoking is not addictive would
      also impact on public awareness regarding the
 9
      ddictive metere of cigarette smoking?
10
            I'm cortain that people must have read
11
     those statements and evaluated it and appraised
12
      it and made some assessment about it, if that's
13
          you mean.
                     I mean, to the effect that it did
14
    ave -- people were no doubt aware of it,

dertainly.

16
            Q. So in other words your testimony is
17
    That some people saw the news broadcast of
18
  cobacco executives testifying in Congress saying
    20
    after seeing that arrived at the conclusion that
21
22
     igarette smoking isn't addictive?
                               I object to form.
23
                  MR. PURVIS:
```

WAGA & SPINELLI

THE WITNESS:

considered the source and probably were highly

24

25

(973) 992-4111

I suspect they

```
skeptical of anything that was said by the
```

- 2 tobacco executives.
- 3 BY MR. LEFKOWITZ:
- Q. But that would depend on an
- 5 individual's thought processes, right?
- 6 A. No, I think it would also be a part of
- 7 what I would call the common understanding or the
- 8 common cultural reputation that attaches these
- 9 days to the tobacco industry.
- 10 Q. so, in other words you're saying
- 11 that right the public understanding or the
- 12 public awareness regarding what tobacco companies
- 13 have to saw is they're a bunch of liars?
- MR. PURVIS: I object to the form.
- 15 THE WITNESS: I would say that their
- 16 gredibility s not of the highest.
- 17 BY MR. LEFKOWITZ:
- Q. Is it the role of historians to
- 19 ttest the credibility of other individuals?
- 20 That's a very general -- that's a very
- 21 @ general statement. Could you give me a
- 22 pecific --
- 23 Q. Well --
- 24 A. -- a specific illustration?
- Q. Sure. The tobacco companies have

- publicly taken the position and some of their
- 2 executives have testified under oath --
- 3 A. Yes.
- Q. -- that cigarette smoking is not
- 5 addictive. Right? We know that.
- 6 A. That's their opinion, yes.
- Q. You're saying that in your opinion
- 8 people don't believe that because they consider
- 9 the source?
- 10 A. I think that's highly probable. I think
- 11 and they sald it was addictive, it would not have
- 12 changed one scintilla of public understanding or
- 13 public awareness. It would similarly have
- 14 reinforced what people already believe.
- Q. What's your basis for saying that?
- 16 A. Some the depositions in fact of your
- 17 plaintiffs believe there is one woman who
- 18 Westified concerning the warning labels in 1966
- 19 who was asked very directly, did those
- 20 abels in any way affect your understanding about
- 21 health, and she said, not in the least, it told
- 22 what I already knew.
- Q. That's not really my question.
- 24 A. I know it's not. I was trying to give a
- full answer to your question.

```
Ο.
                    Why in your opinion are the tobacco
 1
      companies not believed by the public?
 2
              I believe there is a sense that their
 3
      statements may be self-serving, in the sense that
 4
      they are not -- they are not as objective, say,
 5 🤻
      as statements that might be made by physicians or
      public health officials or others because of
      their pecaniary interests in this activity.
                   Is it your opinion that there is a
     bublic awareness that the cigarette companies
10
11
     have concerded information regarding the
      addictive nature or health related risks
12
      associated with cigarette smoking?
13
                   MR. PURVIS: I object to the form.
                   THE WITNESS: What do you mean by
15
      "concealed"2
16
      BY MR. LEKKOWÌTZ:
17
             Q. Not provide or be forthcoming with
18
19 all of the information that they have suggesting
     or indicating that cigarette smoking is either
20
      addictive or carries certain health risks.
21
22
             And what is the question then?
23
                   Is it your opinion that there is a
24
      public awareness that the cigarette companies
25
      have concealed or withheld information from the
```

```
1 public suggesting or indicating that cigarette
```

- 2 smoking is either addictive or carries certain
- 3 health related risks?
- 4 MR. PURVIS: I object to the form.
- 5 THE WITNESS: I believe there may be
- 6 public awareness out there that the cigarette
- 7 companies have certain documents bearing upon
- 8 those issues, yes. Yes. If that's what you
- 9 mean, that these internal company documents --
- 10 BY MR. LERKOWITZ:
- 11 Well, Professor, you've testified
- 12 about public awareness.
- 13 A. Yes
- 14 Q. So I want to ask you whether or
- 15 not -- strike that. If the tobacco companies
- 16 have information that suggests that cigarette
- 17 moking is addictive or has various or creates
- 18 various health related problems, but did not
- 19 disclose that information, the fact of that
- 20 pondisclosure would impact on public awareness,
- 21 wouldn't it?
- 22 In some fashion, certainly, yes.
- Q. In fact information that the tobacco
- 24 companies had to the effect that cigarette
- 25 smoking was either addictive or created certain

- 1 health related risks but concealed or did not
- 2 release into the public domain created a
- 3 controversy, did it not?
- 4 A. It may have. I think the answer to your
- 5 guestion is that it would have reinforced,
- 6 reconfirmed the beliefs that were in the public
- 7 domain.
- 8 And while it may have stirred
- 9 controversy, I think that the weight of opinion,
- 10 the weight common opinion, of common
- 11 anderstanding, was certainly on the side of those
- 12 who are arguing concerning the health hazards of
- 13 ciganestes the fact that it was a very
- 14 difficult habit to break.
- Q. there a public awareness in your
- 16 opinion that the cigarette companies have not
- 17 Leen forthcoming with information regarding the
- 18 addictive nature of smoking or the risks
- 19 ssociated with smoking?
- 20 MR. PURVIS: I object to the form.
- THE WITNESS: You know, I haven't
- 22 eally researched that particular issue about
- whether there is broad public awareness about the
- 24 issues you're referring to, concealment of
- 25 documents.

```
So it's really an area that I
 1
 2
      haven't had an opportunity to research. And
      therefore I really can't render an opinion on
 3
             It's been of such recent occurrence.
 4
      BY MR. LEFKOWITZ:
 6
                   Let's look at Parrish Exhibit 7 on
      page 18.
                Do you have page 18, Professor?
 8
             I đo, yes.
                   At the top of the page it reads, "We
10
      categorical reject the claim that cigarettes
   are addict and we know that an objective
      review of the facts and science supports our
12
13
     "positign.
                  Have you ever read that before?
                 www.ve never read that. At least I
             No.
     don't recal having read all of it. As I say, I
     may have read this in conjunction with my
17
      research into congressional testimony. But I
18
    don't recall specifically that statement.
                   Did your research disclose that the
20
             Q.
      statement that I just read from page 18 of
21
22
    Parrish Exhibit 7 represents the stand or
23
     position of the tobacco companies regarding the
```

addictive nature of cigarettes?

I think it does.

24

25

Α.

```
Referring to page 18 also, do you
 1
              Ο.
      see the sentence which reads, "When each of these
 2
      elements is carefully analyzed in an unbiased
 3
      manner, it becomes clear that cigarette smoking
 4
       is no more addictive than coffee, tea, or
 5
      Twinkies."
 6
                    Do you see that?
 8
             Yes
                    Do you recall that statement
 9
                media attention and publicity?
10
       eceiving
             Not cifically.
11
                    In connection with your research,
12
          you examine any videotapes of news
13
        oadcasts
15
             Yes
                    ådid.
                   Mow did you obtain that information?
16
             Well-we have an archive at UCSD, an
17
      Mistorical thive concerning famous or notorious
18
  elevision news broadcasts. There is also an
19
20
      archive that is available to scholars at
21
      vanderbilt University which is quite extensive.
22
                   Did you go to Vanderbilt University?
             Q.
23
             No.
24
             Ο.
                   Did you get information from
      Vanderbilt?
25
```

- 1 A. I don't recall getting information from
- 2 Vanderbilt specifically. But I do have a list of
- 3 their catalogue, yes.
- Q. How many videos did you examine?
- 5 When I say "videos," I'm talking about segments,
- 6 separate news broadcasts or separate television
- 7 talk shows or separate segments on 20/20 or 60
- 8 Minutes.
- 9 A. Yes. It would be hard for me to give you
- 10 an exact figure. But certainly in the
- 11 properties of maybe a dozen or maybe two dozen.
- 12 Q. And is it fair to say that each and
- 13 every one of those that you examined suggested or
- 14 Indicated that cigarette smoking was addictive,
- 15 Marmful, or had various health related risks
- 16 associated th it?
- 17 . I would say that the overwhelming
- 18 gonclusion or message of those broadcasts that I
- 19 ooked at is as you describe, although some of
- 20 hem contain what you would call a controversy or
- 21 @ debate concerning those very same issues.
- Q. So some of the videos that you
- 23 examined attempted to balance out the
- 24 presentation?
- 25 A. Yes.

```
Q. By giving -- yes?
```

- 2 A. Yes.
- Q. And it's your testimony that an
- 4 observer to a video that had a balanced
- 5 presentation would conclude that digarette
- 6 smoking was addictive and carried with it various
- 7 health related risks?
- 8 A. Well if you refer, for example, to the
- 9 television reporting and inquiries, say, in the
- 10 🚵 🚈 arly to 🗚 950s, for example the famous Edward
- 11 R. Murrow broadcast, there was far more debate
- 12 and controversy at that point than certainly by
- 13 / the # 6 19 6 0 #
- 14 would say that 1964, with the
- 15 Surgeon General's report, is a watershed in terms
- 16 of television coverage moving in a very, very
- 17 hegative and condemnatory direction with respect
- 18 to the weight of the evidence with regard to the
- 19 health hazards of cigarettes.
- 20 Q. In connection with your engagement,
- 21 gid you review statements made by Senator Reed
- 22 Smoot?
- 23 A. Yes, I read Senator Smoot's proposed
- 24 legislation and his testimony in the
- 25 congressional report.

```
1 MR. LEFKOWITZ: Let's mark this as
```

- 2 Parrish Exhibit 8.
- 3 (Parrish Deposition Exhibit Number 8
- 4 was marked for identification.)
- 5 🎢 🧗 🦖 MR. LEFKOWITZ:
- 6 Q. You have before you Parrish Exhibit
- 7 8 is. This the statement in the Congressional
- 8 Record from Senator Reed Smoot that you were
- 9 referring to?
- 10 A. I have to take a moment to review it. It
- 11 appears to a copy of the Congressional Record,
- 12 yes, with Senator Smoot's statement concerning
- 13 his proposed legislation.
- 14 Referring to the first page, or
- 15 ctually the page that is marked page 3, at the
- 16 pottom of the page there is a paragraph as
- 17 Collows, and quote.
- Whatever may be said of the
- 19 oderate indulgence in the use of tobacco, it is
- 20 clear that the issue raised before the country in
- 21 some of the current cigarette campaigns is the
- 22 ssue raised by urging excessive cigarette
- 23 smoking by flaunting appeals to the youth of our
- 24 country, by misrepresenting established medical
- and health findings in order to encourage

```
cigarette addiction."
```

- 2 Did you examine that particular
- 3 paragraph in connection with your engagement?
- 4 A. I certainly read it, if that's what you
- 5 mean.
- 7 did you undertake any further investigation into
- 8 the allegation made by Senator Smoot that the
- 9 tobacco companies misrepresented established
- 10 medical and alth findings in order to encourage
- 11 igarette addiction?
- 12 A. No, I didn't undertake that research.
- 13 Did your research disclose that in
- 14 the 1920s and '30s, that the cigarette companies
- 15 Promoted cigarette smoking through the use of
- 16 Cestimonial from professional athletes and
- 17 actors and actresses?
- 18 A. I'm probably aware of that from my general
- 19 econdary reading, but I don't recall
- 20 pecifically having looked at examples that
- 21 you're referring to.
- Q. In connection with your engagement
- 23 did you look at any cigarette advertising that
- 24 encouraged cigarette smoking?
- MR. PURVIS: I object to the form.

```
What's wrong with
 1
                   MR. LEFKOWITZ:
 2
      the question?
 3
                   MR. PURVIS:
                               Vaque.
 4
                   MR. LEFKOWITZ:
                                   Can we have the
      question read back?
                   (The record was read as requested.)
 6
                   THE WITNESS: Well, that calls I
      guess for a conclusion on my part. Certainly in
      the course of my historical research I read a lot
     of magazines and periodicals that contain
10
    cigarette decertising going back many, many
              But you asked me for a conclusion about
12
      years.
      whether that advertisement encourages smoking.
13
                   And I guess I don't feel I'm really
15 make that judgment. There is a lot
    of research on that topic.
16
      BY MR. LERKOWITZ:
17
            Q. Did you see any cigarette
18
19 advertising that discouraged cigarette smoking?
            Yes. I've seen a lot of that in
20
21
     anti-cigarette publications in the 1920s and
    1930s and in high school textbooks.
22
23
                   MR. LEFKOWITZ:
                                   Can I have the
24
     question read back, please?
25
                   (The record was read as requested.)
```

WAGA & SPINELLI

(973) 992-4111

```
BY MR. LEFKOWITZ:
 1
 2
                    Could you answer my question,
      Professor?
 3
             Yes, I have.
 4
 5
                    MR. PURVIS: I object to the
      commentary.
 6
      BY MR. LEFKOWITZ:
                    Would you answer my question?
 8
                    MR. PURVIS: Argumentative.
 9
                   HE WITNESS: Would you restate the
10
11
      guestion før me?
12
      BY MR. LEFKOWITZ:
13
                    Sure. Have you seen any cigarette
       dvertising that discourages cigarette smoking?
15
                 I see. I'm sorry. I misunderstood
             Oh,
16
                      I don't recall having seen such
      your question
       dvertising.
17
                  R. LEFKOWITZ: Off the record.
18
                   THE VIDEOGRAPHER: We're going off
19
20
                   The time is 11:37 a.m.
       he record.
21
                    (Discussion off the record.)
22
                   THE VIDEOGRAPHER: We are back on
23
      the record.
                   The time is 11:39 a.m.
24
      BY MR. LEFKOWITZ:
25
             Q.
                   As an historian, Professor, you're
```

WAGA & SPINELLI

(973) 992-4111

- obviously familiar with the Kennedy
- 2 assassination, correct?
- 3 A. I've read some materials about it, yes.
- Q. And you are aware that the Warren
- 5 Commission issued a report indicating that there
- 6 was a single gunman, that the single gunman was
- 7 Lee Harvey Oswald, right?
- 8 A. I do recall that, yes.
- Q. Is the Warren Commission report in
- 10 your opinion authoritative?
- 11 A. You asking for my professional opinion
- 12 🐛 as an historian?
- 13 Q. Yes, sir.
- 14 A. I think the Warren report is essentially
- 15 the correct version of the assassination, yes.
- 16 Q. Is the Warren Commission report
- 17 🖔 🔭 eliable?
- 18 Well, in what respect? I mean, as you
- 19 know, it's a voluminous document, and it draws a
- 20 lot of conclusions about a wide range of events
- 21 * associated with the Kennedy assassination. On
- 22 what essential --
- 23 Q. Are there any portions of the Warren
- 24 Commission report that you would consider as an
- 25 historian to be unreliable?

- 1 A. Isn't this rather far afield from what
- 2 we're --
- 3 Q. No.
- 4 A. -- examining here?
- MR. McCONNELL: Well, yes, it is,
- 6 but you can answer the question anyway.
- 7 THE WITNESS: Well, in my opinion I
- 8 think that they may have miscalculated the timing
- 9 of the shots by Lee Harvey Oswald, and that this
- 10 may have led them to draw certain conclusions
- 11 that I thim do not necessarily stand up, but do
- 12 not necessarily undermine the basic conclusion of
- 13 the reports
- 14 BY MR. LEFKOWITZ:
- Q. You are aware, are you not, that
- 16 There are a ariety of conspiracy theories about
- 17 President Kennedy's assassination?
- 18 There certainly are, yes.
- 19 And you're also aware there are a
- 20 wariety of theories held by various individuals
- 21 suggesting that the Warren Commission report is
- 22 merroneous?
- 23 A. There are such opinions, yes.
- Q. Do you agree with me there are
- various historians that would agree that the

```
1 Warren Commission report is erroneous?
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- 2 A. Yes.
- Q. Are you familiar with articles or
- 4 books criticizing the Warren Commission report?
- 5 🔭 🔼. Oh, yes.
- 6 Q. And are you familiar with articles
- 7 or books suggesting that the Warren Commission
- 8 report is wrong?
- 9 A. Yes.
- 10 Q. what in your opinion was the popular
- 11 www.awareness Adarding who assassinated President
- 12 Kennedy after the issuance of the Warren
- 13 Commission report?
- 14 A. I tank it was still very much a contested
- 15 popular terrain. I think it
- 16 remains to me extent contested to this very
- 17 aay.
- Q. What was the popular awareness
- 19 regarding who assassinated President Kennedy
- 20 after the movie JFK?
- 21 MR. McCONNELL: I'll object. This
- 22 clearly outside the area of the witness's
- 23 stated expertise.
- 24 THE WITNESS: Do I have to answer
- 25 this question?

```
BY MR. LEFKOWITZ:
 1
 2
             Q.
                    Yes.
                                As best you can.
                    MR. PURVIS:
 3
                    THE WITNESS: As best I can.
 4
      would say it remained an area of highly contested
 5
      debate and argument even in the wake of Oliver
 6
      Stone's motion picture.
 7
      BY MR. LEPKOWITZ:
                   In your opinion did the movie JFK
 9
      affect popular awareness regarding who
10
     assassinated President Kennedy?
             I think it reignited and reinforced
12
              opinions that were held, certain opinions
13
       hat were held in the popular and common
      understanding on both sides.
                  So in other words your testimony is
16
      that the movie JFK did affect popular awareness
17
       egarding who assassinated President Kennedy?
18
                   MR. PURVIS: I object to the form.
19
                   THE WITNESS: Well, I believe it
20
      reinforced a set of beliefs about the
21
      assassination. It basically was a recapitulation
22
23
      of interpretations that many people had since
24
      1963 or '64.
      BY MR. LEFKOWITZ:
25
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```
Q. Well, when something reinforces, it
```

- 2 also affects, does it not?
- 3 A. That's correct, yes.
- 4 Q. So if something reinforced public
- 5 awareness it also affected or impacted public
- 6 awareness, true?
- 7 A. Yes, that's true.
- Q. So would you agree with me that the
- 9 movie JFK affected public or popular awareness
- 10 regarding who assassinated President Kennedy?
- 11 A. Yes t did that, and, as I say, it
- 12 reinforced interpretations and opinions about the
- 13 assassination that had been present certainly
- 14 since Mark ane wrote his book, and also
- 15 Professor Popkin, who wrote a book called The
- 16 Second Oswa
- 17 @ Q. Are you aware of allegations that
- 18 the Warrer mission concealed, misrepresented,
- 19 failed to disclose or manipulated facts?
- 20 A. You know, I'm not really an expert on the
- 21 historiography or the history of the Warren
- 22 Commission. And so I'm afraid I would give you
- 23 an uninformed answer on that point. I'm not
- 24 deeply acquainted with that historiography.
- Q. Are you aware of allegations that

- 1 have been made that the Warren Commission
- 2 concealed, misrepresented, failed to disclose or
- 3 manipulated facts?
- 4 A. I am not aware of that. I am aware of
- 5 allegations that the Federal Bureau of
- 6 Investigation and the Central Intelligence Agency
- did not provide Warren Commission investigators
- 8 with everything within their knowledge.
- I am not aware that the Warren
- 10 Commission Ttself, as you say, whatever,
- 11 concealed ar hid. I know that certain things
- 12 were not made public.
- Q. If in fact the FBI or CIA concealed
- 14 information from the Warren Commission, that
- 15 impacted or affected the Warren Commission
- 16 report. Fair statement?
- 17 A. Again, I'm out of my depth here, because
- 18 this is not area that -- I am not deeply
- 19 acquainted with all of the literature surrounding
- 20 this.
- 21 But the acquaintance that I do have
- 22 suggests to me that the extent to which, say, the
- 23 FBI was not forthcoming in the conclusion of
- 24 many -- a great many scholars did not affect the
- 25 final conclusion concerning Mr. Oswald and the

- 1 assassination.
- Q. Are you familiar with circumstances
- 3 where the government or private industry has
- 4 attempted to shape, affect or manipulate popular
- 5 awareness?
- 6 A. Very broad question. I mean, you're
- 7 referring to the United States Government, or the
- 8 government of Nazi Germany, or --
- Q. United States Government.
- 10 A. Would you rephrase the question to me?
- 11 Q. Sure. Are you familiar with
- 12 circumstances where the United States Government
- 13 has attempted to shape, affect or manipulate
- 14 popular awareness?
- MR. PURVIS: I object to the form.
- 16 THE WITNESS: The United States
- 17 Covernment, as you are aware, is a very broad and
- 18 diverse entity. It includes the President, it
- 19 ncludes the Congress, the Judicial Branch.
- 20 Could you be more specific about who is doing
- 21 * this or --
- 22 MR. LEFKOWITZ:
- Q. No. Can you answer my question?
- 24 A. It is so broad, I'm afraid, sir, that I
- 25 simply can't get a handle on it.

```
Q. Fair statement. Let's give you an example, okay?
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- 2 example, okay?
- 3 A. Sure.
- Q. During the Vietnam War, each week on
- 5 the evening news there were body counts of North
- 6 Vietnamese or Viet Cong soldiers that represented
- 7 casualties, right? And those were referred to as
- 8 body counts, right?
- 9 A. I do have recollection of that, yes.
- Q. Would you agree with me that as of
- 11 today we know that the body counts that we saw
- 12 back in the mid-'60s were false?
- MR. PURVIS: I object to the form.
- 14 THE WITNESS: There are a number of
- 15 cholars who i believe have alleged that in their
- 16 studies about the history of the Vietnam War,
- 17 🔊 💘 es.
- 18 MR. LEFROWITZ:
- 19 Do you happen to agree that the body
- 20 counts that we saw on the evening news in the
- 21 **1,960s were overstated?
- 22 I'm afraid I have to say again that while
- 23 I consider myself a fairly competent and able
- historian of 20th century America, that I'm not
- 25 that familiar with the literature concerning the

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Vietnam War, and especially concerning military
```

- 2 body counts in the Vietnam War.
- I'm afraid I couldn't give you an
- 4 informed answer on that.
- 5) Q. Well, you've heard allegations that
- 6 body counts were inflated.
- 7 A. I've heard those allegations made by
- 8 historians of the Vietnam War, yes.
- Q. And if in fact the body counts were
- 10 Inflated, that would be a manipulation of facts.
- 11 Fair statement?
- 12 A. There would be those allegations, yes,
- 13 that they we're not true and accurate. Yes.
- 14 The historians that you've read
- 15 bout that subscribed to the theory that the body
- 16 counts -- stanke that.
- 17 You have no independent or have
- 18 monducted nor within your
- 19 course and scope of teaching as a professor in
- 20 the area of history have no actual knowledge
- 21 regarding allegations respecting the inflation of
- 22 pody counts, is that your testimony?
- MR. PURVIS: I object to the form.
- THE WITNESS: I have read, you know,
- a number of general histories of the Vietnam War,

- not the most recent scholarship in that, which I
- 2 know does make those allegations. I'm aware of
- 3 the allegations, yes. I just have no way of
- asserting a firm opinion one way or the other
- 5 bout the accuracy of those.
- BY MR. LEFKOWITZ:
- Q. Are you aware of allegations that
- 8 American servicemen serving in Saudi Arabia and
- 9 Ruwait during the Gulf War were exposed to
- 10 _ chemical or biological agents?
- 11 I have read about that in the papers, yes.
- 12 Q. Has your awareness regarding their
- 13 exposure to chemical or biological agents changed
- 14 In the last six years?
- 15 I haven't followed -- I haven't followed
- 16 that particular debate very closely. I know it
- 17 s a contested piece of ground.
- 18 Q. Well, in 1991 or 1992, did you ever
- 19 mead anything that indicated that American
- 20 servicemen serving in the Gulf War had been
- 21 exposed to chemical or biological agents?
- MR. McCONNELL: Objection. Outside
- the scope of proffered expertise.
- 24 THE WITNESS: I may have read an
- 25 article or so. I don't recall.

```
BY MR. LEFKOWITZ:
                   As the years have passed, have the
 2
      articles suggesting that American servicemen
 3
      serving during the Gulf War were in fact exposed
      to chemical or biological agents increased?
             As I've tried to say, I have, as other
 6
      readers, generally read such articles in the
     paper in the last year or so. My impression or
   ‱may recollecti∞on having read those articles is
      that it is a contested area in terms of that
              That's my best recollection of what the
11
      issue.
     newspaper propunts have said.
12
13
                   MR. LEFKOWITZ: Why don't we take
14
      youar whateak
                 THE VIDEOGRAPHER:
                                       This marks the
      end of videotape number 1, volume number 1 in the
     deposition of Professor Parrish. We're going off
17
      the recording The time is 11:52 a.m.
                   (Whereupon, at 11:52 a.m., a lunch
19
      recess was taken.)
20
21
22
23
24
25
```

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1
                       AFTERNOON SESSION
  2
                                        (12:50 p.m.)
  3
                    THE VIDEOGRAPHER:
                                        This marks the
  4
       beginning of videotape number 2, volume number 1
       in the deposition of Professor Parrish. We're
 6
       back on the record.
                            The time is 12:50 p.m.
       BY MR. LEFKOWITZ:
              Q. Professor Parrish, this morning we
 9
      were talking about public awareness, correct?
10
             Yes were.
11
                 And your opinion with respect to
12
      public awareness is derived from your review of
13
       various newspapers, periodicals, and other
14
      materials that you told us about this morning,
15
       ight?
16
                    MR. McCONNELL:
                                    I object to form.
17
                   THE WITNESS:
                                  That's correct.
                                                    Also
      public opinion polls, for example. Yes.
18
      BY MR. LEKKOWITZ:
19 🏁
20
                   Your opinion with respect to public
21
      awareness is derived from your examination of the
22
     materials set forth in paragraph 2 of Parrish
23
      Exhibit 3?
24
             Paragraph number 2 -- yes, that would --
25
      that's accurate.
                        Yes.
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```
1 Q. Now, one of the things we have not
```

- done, Professor Parrish, is defined "public" from
- 3 the standpoint of an age group. When you used
- the term "public" or "popular" in connection with
- 5 your opinion, what specific age group did you
- 6 have in mind as being included within the
- 7 definition of "public" or "popular"?
- 8 A. Well the research I have done has covered
- 9 wide spectrum with respect to age. For
- 10 example, i have studied and reviewed school
- 11 textbooks which would be appropriate for children
- 12 of a certain age.
- 13 / I've also read publications that
- 14 would make appropriate for what you would call
- 15 the elder the geriatric set; health
- 16 magazines that are directed, for example, at the
- 17 older population.
- And I would assume that newspapers
- 19 and magazines are read by a fairly broad age
- 20 spectrum.
- Q. Well, what age group did you opine
- 22 had public awareness regarding the addictive
- 23 nature of cigarette smoking or the health related
- 24 risks associated with cigarette smoking?
- 25 A. I think I opined or concluded that across

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age groups, whether one is speaking about
```

- 2 elementary or secondary school children or
- 3 whether one is speaking about middle-aged adults
- 4 or the elderly, that there was an abundance of
- information out there concerning the health
- dangers of smoking.
- Q. You'll agree with me, will you not,
- Professor, that the older one gets, the more he
- 9 is exposed to from the standpoint of an
- 10 ____information standpoint; right?
- MR. PURVIS: I object to form.
- THE WITNESS: I suppose, as you
- 13 often say would vary from person to person.
- 14 I mean I m ...
- 15 BY MR. LEPKOWITZ:
- 16 Q. You wouldn't expect a 14-year-old to
- 17 Lead the New York Times, would you?
- 18 A. No, I would not.
- 19 And you did not assume for the
- 20 purposes of offering your opinion that a
- 21 14-year-old did read the New York Times, right?
- 22 A. No. But a 14-year-old might read a local
- newspaper. I know my 14-year-old reads the San
- 24 Diego Union rather assiduously.
- Q. Would you agree that popular

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awareness is affected when something short of a
```

- full, accurate or complete set of facts are
- 3 disclosed, shared, or provided to the public?
- A. It's too general -- it's too general a
- question. Could you be specific about a
- 6 particular instance or an example you might
- 7፟‱ 'provide?
- Q. You can't answer my general
- 9 guestion?
- 10 A. It awfully general, I'm afraid. I mean,
- 11 it calls for sort of a global -- a global
- 12 conclusion my part about a very broad
- 13 statement
- 14 Well, if the public is not given all
- 15 of the intermation with respect to a particular
- 16 subject, would the nondisclosure of certain key
- 17 information logically affect popular or public
- 18 awareness?
- 19 A. It might.
- 20 Q. In your own experience, has your own
- 21 awareness changed regarding an historical event?
- 22 A. You mean has my opinion or my
- 23 interpretation about a particular event --
- Q. Changed?
- 25 A. -- been changed?

- 1 Q. Yes.
- 2 A. Yes, I suspect it has been. Yes.
- 3 Q. Can you give me an example or an
- 4 instance?
- 5 A. Well, I think that probably my opinion or
- 6 assessment, say, of President John Kennedy
- 7 probably has been altered from the time when I
- 8 was, say, in my late teens, my early 20s, to the
- 9 time of today. I would say that it has been
- 10 altered, year as a result.
- 11 Q. How has it been altered?
- 12 A. As a result of reading, research, and
- 13 the the table the Kennedy administration
- 14 between 1961 and 1963.
- Q. hat was your opinion then and what
- 16 () s your opinion now?
- 17 With respect to what particular issue
- 18 about the Kennedy years are you referring to?
- 19 Q. Well, the question I asked you was,
- 20 n your own experience, has your own awareness
- 21 regarding an historical event changed?
- 22 Yes. And I did cite the example for you
- of my opinion or my interpretation, say, of the
- 24 Kennedy administration. Yes.
- Q. Right. How did it change?

- 1 A. Well, with regard to a specific issue with 2 regard to the Kennedy administration?
- Q. With regard to what you just told us
- 4 about. You indicated in response to my question
- 5 that, yes, in your own experience your awareness
- 6 with respect to historical -- that it had
- 7 k changed, and you referred to the Kennedy
- 8 administration.
- 9 And I'm trying to explore further
- 10 nand find on hat your opinion was and what it is
- 11 how and how at changed and why it changed.
- 12 A. Yes I understand. I would say that with
- 13 Especial to Kennedy administration's posture
- 14 toward civil rights with respect to its
- 15 relationsh with Dr. King and relationships to
- 16 the civil anghts movement in the south, that the
- 17 Liews that T previously held, I have modified
- 18 those in certain ways. Yes.
- Q. What were the views that you
- 20 previously had?
- 21 A. I think -- if I can recall, and of course
- 22 m recalling a period at least 30 years ago or
- 23 so, I think I viewed the Kennedy administration
- 24 as being more supportive of civil rights than in
- 25 fact the record may now tend to indicate the

- 1 President and his brother happened to be.
- Q. And what caused you to change your
- 3 own opinion in that regard?
- 4 A. Other pieces of research by other
- 5 historians.
- 6 Q. Any other historical events within
- 7 your own experience -- strike that. Has your own
- 8 awareness with respect to an historical event
- 9 changed over a period of time?
- 10 🗼 👗 .
- 11 Q. What other event?

Yes

- 12 A. Oh, gosh.
- 13 Q. Are there lots of them?
- 14 A. I wouldn't say lots, but there are some,
- 15 yes.
- Q. Why don't you give us some examples.
- 17 A. Well, again, I mean -- you know, I must
- 18 say this seems to be straying rather far from the
- 19 topic of public awareness concerning the health
- 20 pazards of smoking in Pennsylvania. But I'll
- 21 continue.
- I suspect on the issue of the
- 23 question of the relationship of the atomic bomb
- 24 to the end of the Second World War and the
- 25 beginnings of the Cold War, I suspect that my

- l views have been changed there somewhat in the
- 2 last ten to 20 years.
- Q. What were your views and how have
- 4 they changed?
- 5 A. Well, I think at one point I was inclined
- 6 to see, for example, the bomb as having been a
- 7 decisive -- a decisive ingredient in terms of the
- 8 end of the war and also to some extent to see it
- 9 as having a relationship more to the war itself
- 10 than, say, the Cold War that followed with
- 11 regard to Striet/American issues.
- Q. And what caused you to change your
- 13 opinion in that regard?
- 14 A. Additional research done by American and
- 15 by Japanese scholars about the impact of the bomb
- 16 pn Japan.
- 17 Q. If tobacco companies did not
- 18 disclose or share with the American public all of
- 19 he information they had regarding the impact of
- 20 msmoking cigarettes on an individual's health,
- 21 would you agree that the nondisclosure or
- 22 concealment of that information affected popular
- 23 awareness of the impact of cigarette smoking on
- 24 an individual's health?
- MR. PURVIS: I object to form.

```
THE WITNESS: Well, I think I've
 1
      tried to answer that in the past, that I
 2
      believe -- and I'm not familiar with all of
 3
      this -- all this information and these documents
 4
     that you're referring to.
                   It's my sense from what I have read
 6.
      in the papers concerning those documents that
      they would have largely reinforced and
      reconfirmed popular opinions about the
      dangerous of lighting up a cigarette, and
10
     about the addictiveness of doing that.
      BY MR. LEFKOWITZ:
13
               So you have no opinion with respect
             impact, of the nondisclosure of that type
         information?
                   MR. PURVIS:
                                I object to the form.
16
                  THE WITNESS:
                                 In order to do that, I
17
      would have to know what specific documents or
18
     ➡bits of infôrmation you're referring to whose
20
    disclosure would have made some impact.
21
                   I mean, you're speaking so generally
22
     about documents or about the disclosure of this
23
      or that, but it's so vague that I really couldn't
24
     make an assessment about whether it might have
      changed, you know, attitudes or not.
25
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```
1
      BY MR. LEFKOWITZ:
 2
                    So you can't answer my question
             Q.
      unless you see the documents that were -- or
 3
      information that was concealed or not disclosed?
 4
                   MR. PURVIS:
                                 I object to the form.
                   THE WITNESS:
                                  I would say yes, I
 6.
      mean, in the sense that historians' conclusions
      may draw inferences based upon their study of
      documents by and large, and that without those
      documents sextremely hard to make a judgment
10
      about it.
                   MR. LEFKOWITZ:
                                    This will be Parrish
12
13
14
                   (Parrish Deposition Exhibit Number 9
       as marked for identification.)
      BY MR. LEFKWITZ:
                 Professor, you have before you
17
      arrish Deposition Exhibit 9?
             Yes I do.
                   And it is a Frank Statement To
20
21
      Cigarette Smokers?
             Mm-hmm.
22
23
                   And that's the same Frank Statement
24
      that you referred to earlier in your testimony
      when I was asking you about cigarette advertising
25
```

- and statements made by the tobacco industry which
- were part of the common knowledge that you
- 3 referred to in your expert report?
- 4 A. Yes.
- Q. This was a statement that was issued
- 6 by the Tobacco Industry Research Committee.
- 7 A. As far as I know.
- 8 Did you conduct any research into
- 9 the Tobacco Industry Research Committee?
- 10 A. No t into documents or into primary
- 11 materials no doubt read some secondary
- 12 literature concerning it.
- 13 Q. Do you know who comprised the
- 14 Tobacco Industry Research Committee?
- 15 A. No I probably couldn't give you the
- 16 names.
- Q. Do you know why the Tobacco Industry
- 18 Research Committee was formed?
- 19 A. Oh, yes. I mean, I have I guess an
- 20 historian's interpretation or assessment of that,
- 21 🕷 yes.
- Q. What is your interpretation or
- 23 assessment?
- 24 A. I would say that the industry was rather
- frightened and alarmed by a lot of the research

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that was gathering momentum in the late 1940s,
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- early 1950s, concerning the medical evidence
- 3 linking smoking to lung cancer, and that this
- 4 statement was in fact -- it indicates a
- 5 considerable concern on the part of the industry
- 6, that they were not in the highest affection with
- 7 the public with respect to that issue.
- Q. Do you know why the Tobacco Industry
- Pesearch Committee was formed?
- 10 MR. McCONNELL: Objection. Asked
- 11 and answered.
- MR. LEFKOWITZ: He didn't answer it.
- 13 MR. McCONNELL: Yes, he did.
- 14 THE WITNESS: I suspect there were
- nany reasons why it was formed. I have not
- 16 (studied the I mean, I have not looked at those
- 17 documents or studied the internal history of that
- 18 particular institution.
- 19 BY MR. LEFKOWITZ:
- 20 Q. The Frank Statement states in part
- 21 that there is no proof that cigarette smoking is
- 22 ppe of the causes of lung cancer. Is that true?
- 23 A. Are you asking for my personal opinion
- 24 or --
- Q. I'm asking you is that what it says.

- 1 A. Where is that in the document?
- Q. If we take a look at paragraphs 1, 2
- 3 and 3.
- 4 A. Okay. I see there is no agreement among
- 5 authorities regarding what the cause is.
- Q. And number 3. "There is no proof
- 7 that cigarette smoking is one of the causes,"
- 8 right?
- 9 A. That's what it says, yes.
- 10 Q. Would you agree the message the
- 11 Frank Statement is sending to the public is that
- 12 there is no proof that cigarette smoking is one
- 13 of the cause of lung cancer?
- 14 A. That was their conclusion when they
- 15 published that, yes.
- 16 Q. And also the Frank Statement says
- 17 We believe the products we make are not
- 18 injurious to health"?
- 19 That was their opinion, yes.
- Q. And you think that this exhibit
- 21 constitutes cigarette advertising and statements
- 22 made by the tobacco industry reinforcing the
- 23 common knowledge that cigarette smoking can be
- 24 addictive and that there are potential risks
- associated with smoking?

```
Let me say that I think people who read
 1
      this statement, who for example may not have been
      aware of the research, say, done by Wynder &
 3
      Graham or even the studies done for the American
 4
      Cancer Society, that this statement would have
      alerted them to those kinds of negative studies
 6.8
      which had come before this statement; in other
      words, that this would have been a red flag to
     people saying, my gosh, why are the cigarette
      companies lishing this? There must be
     something wong with -- you know, with smoking.
               That's how documents have to be
12
      read in their historical and cultural and social
               Why was this published in 1954?
14
      within a context of a growing body of literature
     about the pagerousness of smoking.
             Q. Do you think the American public
17
      thinks that way, Professor?
                   MR. PURVIS: I object to the form.
                   THE WITNESS: I haven't -- I haven't
20
     looked into that issue. I'm just trying to
21
     interpret for you how I would interpret this
22
23
      document in the context of its time.
      BY MR. LEFKOWITZ:
24
                   I understand. In 1954, Professor,
25
             Q.
```

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```
there were various studies and various media
 1
 2
      reports suggesting that smoking caused lung
      cancer, caused various other health problems,
 3
 4
      right?
 5
             Correct.
                        Yes.
 6
                    The cigarette industry via the
 7
      Tobacco Industry Research Committee issued the
      Frank Statement basically saying what the other
      side says lsn't true, right?
10
             Yes
                  So as of this point in time there's
12
      two separate thoughts being exposed to the
13
     American public.
14
            _Correct
                 One saying cigarette smoking is bad
15
      for you, on from the tobacco industry saying
16
      here's no evidence that cigarette smoking is bad
17
       or you.
                Fair statement?
18
             Yes
19
                   Do you know, professor --.
20
             Q.
21
                   MR. LEFKOWITZ:
                                    Let's go off the
22
       ecord a second.
23
                   THE VIDEOGRAPHER:
                                       We're going off
```

The time is 1:10 p.m.

(Discussion off the record.)

24

25

the record.

```
THE VIDEOGRAPHER: We are back on
```

- the record. The time is 1:11 p.m.
- 3 BY MR. LEFKOWITZ:
- Q. Professor, I'm holding a book called
- 5 The Cigarette Papers which was authored by some
- 6 people, Stanton A. Glanz, G-L-A-N-Z, John Slade,
- 7 Lisa Bero, B-E-R-O, Peter Hanaurer,
- 8 H-A-N-A-U-RE-R, and Deborah Barnes. Do you know
- 9 any of those people?
- 10 Å. No
- Q. Po you know that Stanton Glanz is a
- 12 professor at the University of California San
- 13 Francisco?
- 14 A. I think I've read that, yes.
- Q. ave you ever read this book?
- 16 (). Not voyer to cover. I'm thumbed through
- 17 Lat.
- 18 Q. You've read parts of this?
- 19 A. I've glanced through it, yes.
- Q. When did you do that?
- 21 A. I think shortly after I tuned in on the
- 22 Web site that the University of California
- operates in conjunction with those very same --
- 24 with many of those same documents.
- Q. Do you know whether or not the

- 1 University of California receives any grants or
- any monies from any company within the tobacco
- 3 industry?
- 4 A. I honestly don't know.
- 5() Q. I'm going to hand you this book,
- 6 Professor. And I would like to read you some
- 7 excerpts and see if you agree or disagree with
- 8 some of the statements. Okay?
- 9 A. Okay. These are from documents in this
- 10 book?
- Q. Well, they're statements, and you
- 12 can either agree or disagree, or you can say you
- 13 have no opinion.
- 14 A. Okay Sure.
- Q. Let's look at page 2.
- 16 A. All Fight.
- 17 \times Q. The third paragraph I'm going to
- 18 read as follows. "The tobacco industry has used
- 19 three primary arguments to prevent government
- 20 regulation of its products and to defend itself
- 21 🗶 in products liability lawsuits. First, tobacco
- 22 companies have consistently claimed that there is
- 23 no conclusive proof that smoking causes diseases
- 24 such as cancer and heart disease.
- "Second, tobacco companies have

```
1 claimed that smoking is not addictive and that
```

- 2 anyone who smokes makes a free choice to do so.
- 3 And finally, tobacco companies have claimed that
- 4 they are committed to determining the scientific
- 5 truth about the health effects of tobacco, both
- by conducting internal research and by funding
- 7 external research."
- Now, Professor, in the course of
- 9 performing your engagement, did you read anything
- 10 or resear he matter that I just read to you?
- MR. PURVIS: I object to the form.
- THE WITNESS: Concerning the
- 13 behavior pinions of the tobacco companies?
- 14 BY MR LEFKOWITZ:
- 15 Q. Ves.
- 16 (A. No That was not a topic or a research
- 17 Lopic that I was interested in. I wasn't
- 18 attempting to write a history of R. J. Reynolds
- 19 or of Philip Morris Company.
- Q. In other words, in the course of
- 21 performing your engagement you did not obtain
- 22 information that confirmed or refuted the
- 23 accuracy of the paragraph that I just read?
- 24 A. No, I did not systematically look into
- 25 company records, company documents. Of course,

```
in the course of my research I encountered
```

- 2 statements, public statements made by the tobacco
- 3 companies, yes.
- Q. On page 3 of the book, the big
- 5 paragraph in the middle, there's a sentence,
- "These documents," which are referring to
- 7 internal documents from the files of Brown &
- 8 Williamson "demonstrate that the tobacco
- 9 industry in general and Brown & Williamson in
- 10 particula engaged in deception of the public
- 11 for at least 30 years. They show that other
- 12 cigarette manufacturers participated in some of
- 13 these activities."
- 14 In the course of performing your
- engagement did you obtain information that
- 16 __confirmed __refuted the accuracy of that
- 17 bassage?
- 18 A. As I said, I have not had an opportunity
- 19 to review these documents that you are referring
- 20 to in order to make a judgment about that matter.
- 21 @ , Q. On page 13, I would like to read to
- 22 you the following passage.
- "As will be seen in the following
- 24 chapters, for more than 30 years B&W has been
- well aware of the addictive nature of cigarettes,

```
and in the course of those years it has also
 1
      learned of numerous health dangers of smoking,
 2
      yet throughout this period it chose to protect
 3
      its business interests instead of the public
 4
      health by consistently denying any such knowledge
      and by hiding adverse scientific evidence from
 6,
      the government and the public using a wide
      assortment of scientific, legal and political
      techniques
                    "The documents also demonstrate
10
      that B&W's onduct was representative of the
      tobacco industry generally."
12
13
                   In the course of performing your
      engagement, Professor, did you obtain information
       hat configured or refuted the accuracy of that
16
      passage?
             As Twe said and I'll repeat again, I have
17
      not studied or evaluated or assessed any of the
18

™documents that this introduction is referring

                And therefore I could not make a
20
      judgment about whether in fact that statement is
21
22
      true.
23
                   However, I can tell you that in my
24
      judgment, whatever these documents contain, if it
```

was certainly of a negative matter with respect

25

- to the health hazards of smoking or the question
- of addiction, it would have in my judgment
- 3 reinforced material already within the public
- 4 domain.

And furthermore, I think if you review the statements made by the Surgeon General in 1964, Mr. Luther Terry, I think in the course of his presentation he in fact noted that some of the research funded by the tobacco industry had

- 10 formed part the basis for the Surgeon
- 11 General's 1964 report.
- 12 Q. Let's refer to page 26, first
- 13 paragraph ich reads as follows: "Part of the
- 14 industry's response to the evidence linking
- smoking a sisease was the formation of the
- 16 Tobacco Industry Research Committee, later
- 17 renamed the Council for Tobacco Research. The
- 18 industry claimed that TIRC was an independent
- 19 organization that would determine the truth about
- 20 the health effects of smoking by funding
- 21 * independent scientific research.
- 22 The documents show, however, that
- 23 TIRC was originally created for public relations
- 24 purposes to convince the public that there was a
- 25 'controversy' as to whether something is

```
dangerous."
```

- 2 In the course of performing your
- 3 engagement, Professor, did you obtain information
- 4 that confirmed or refuted the accuracy of that
- 5 passage?
- 6 A. I have not conducted such a research. I
- have not seen any of these documents relating to
- 8 the Council for Tobacco Research or the Tobacco
- 9 Industry Research Committee. But I will say
- 10 there was controversy out there in the
- 11 scientific mmunity long before the Tobacco
- 12 🛌 Industry Research Committee was formed.
- 13 Q. Let's refer to page 46.
- 14 A. All tight
- 15 There is the following passage.
- 16 Publicly industry maintained and continues
- 17 to maintain -
- 18 A. Excuse me. Where are you reading?
- 19 Q. At the top of page 46, Professor.
- 20 "Publicly the industry maintained and continues
- 21 to maintain that the primary purpose of TIRC and
- 22 CTR has been to fund independent research to
- 23 determine whether smoking is truly hazardous to
- 24 health. Privately, however, lawyers for B&W
- 25 stated that CTR's primary purpose was to allow

```
1
      the tobacco industry to argue that there was a
 2
      controversy about tobacco's effects and that more
      research was needed to resolve the controversy."
 3
                    In the course of performing your
 4
      engagement, did you obtain information that
 5
      confirmed or refuted the accuracy of that
 6
 7
      passage?
             I have not seen or studied or evaluated
 8
 9
      documents that would enable me to conclude one
10
      way or and ther whether that is a true statement,
     beyond say what I did, that I believe the
11
      Surgeon General in 1964 indicated that some of
12
      the research funded by the tobacco companies had
13
         fact been very important to the findings of
      his advisory committee.
16
                Page 58, first paragraph.
      Mocuments breveal that B&W and BAT had a
17
     sophisticaled and scientifically accurate
18
```

an explicit recognition of nicotine's

addictiveness, more than 30 years ago.

"By 1963, B&W and BAT scientists and
executives were internally acknowledging that
nicotine is an addictive drug and tobacco
companies are essentially in the business of

- selling nicotine. Nevertheless, the tobacco
- 2 industry has publicly maintained over the years
- 3 that nicotine is not addictive and that the
- 4 alkaloid merely adds taste and flavor to
- 5 tobacco."
- 6 In the course of performing your
- 7 engagement did you obtain information that
- 8 confirmed or refuted the accuracy of that
- passage, Professor?
- 10 A. I must say I have not been able or I have
- 11 not reviewed these documents by what have been
- 12 referred to as BAT scientists or B&W executives
- 13 that would enable me to assess the validity of
- 14 those documents or their impact or their
- 15 consequence on the behavior of either the
- 16 corporation or its employees.
- 17 Lt has not been on my research
- 18 agenda.
- 19 Let's refer to page 193. Do you
- 20 have 193, Professor?
- 21 A. I do, yes.
- Q. The first paragraph under the
- 23 heading "RJR's projects A and B." "In 1970, the
- 24 tobacco industry was actively discussing various
- 25 public relations strategies to undermine public

```
awareness of the dangers of smoking."
 1
                   During the course of your research
 2
      and in the course of performing your engagement,
 3
 4
      did you obtain information that confirmed or
      refuted the accuracy of that passage?
             I have never seen or evaluated internal
 6 ***
      Α.
      company documents relating to any such
      discussions But if such documents existed and
     if indeed that was the purpose of those
10
      documents would only say the industry seems to
     have failed on a rather dismal fashion in
   undermining public awareness concerning the
13
     dangers of spoking.
14
                   Look at page 319, the paragraph at
      the top of the page. "The tobacco industry's
     strategy of perpetuating controversy about the
      adverse effects of tobacco took place on two
17
               One was to generate controversy among
18
      levels.
     the late public as discussed above.
                                            The other
    was to generate controversy amongst scientists.
20
21
     The controversy amongst scientists could then be
22
     publicized in the lay press."
23
                   In the course of performing your
```

engagement did you obtain information that

confirmed or refuted the accuracy of that

24

25

- passage?
- 2 A. I have not seen any such documents with
- 3 respect to the internal strategy or discussions
- 4 in the industry. But let me add or let me say
- 5 here in this context that the matter of
- 6 controversy or of, say, scientists changing their
- 7 minds, if you take the case, for example, of
- 8 Dr. Ochsner who was one of the leading figures,
- 9 independent figures, by the way, in terms of the
- 10 research output ing cancer and cigarette smoking,
- 11 pr. Ochsner reached some conclusions in 1938
- 12 which he then in fact retracted I think in the
- 13 late 10s, and then changed his mind again on the
- 14 basis of research.
- And so the sense or the belief that
- 16 somehow the companies are generating controversy,
- 17 at least in the case of Dr. Ochsner and I think a
- 18 pumber of others, is to misconceive the nature of
- 19 the scientific enterprise, although I'm not an
- 20 authority on that either.
- 21 Q. Professor, we've got a series of
- 22 @ ocuments here for you to review. And we're
- 23 going to mark this as Parrish Deposition Exhibit
- 24 10. And I'm going to ask that we take a break so
- you can examine this during the break.

```
And I'm going to come back and ask
 1
      you questions as to whether or not you've ever
 2
      seen any of the information appearing in Parrish
 3
      Deposition Exhibit 10 before.
 4
                   THE VIDEOGRAPHER: We're going off
 5
                   The time is 1:27 p.m.
      the record.
 6
                    (Recess.)
 7
                    (Parrish Deposition Exhibit Number
 8
      0 was marked for identification.)
                 THE VIDEOGRAPHER:
                                      We are back on
10
      the record. The time is 1:31 p.m.
                  MR. PURVIS: Prior to showing
12
      Parrick Exhabit Number 10, which is a series of
13
      approximately 20 documents, to the witness,
14
       ounsel for the defendants have reviewed the
      Bocuments, and every one of them is
16
17
      harked with the stamp, the Bates number from the
      dinnesota Attorney General action repository.
18
                   No one is allowed to look at these
19
      Mocuments unless they have previously signed a
20
      confidentiality order, including witnesses and
21
      ncluding counsel. And I trust that counsel for
22
      the plaintiffs have signed such an order.
23
                   But this witness is not going to
24
      undertake to assume a duty under the Minnesota
25
```

```
Attorney General action. I realize you're not in
 1
 2
      that case. I have been involved in it. We all
      on this side of the table have. And these
 3
      documents are not permitted to simply be passed
 4
      around from plaintiffs' attorney to plaintiffs'
      attorney in other litigation.
 6 8
                   So we are not going to let this
 7
      witness review these documents.
                   MS. HONDORF:
                                 You are incorrect,
            Those ocuments came to us through the Arch
10
      sir.
             They are not subject to any
     Case.
      confidentiality. They're not stamped CTR Arch
13
    confidential If there's a CTR Arch confidential
      stamp then I/ll --
14
                  MR. MONICA: These are all stamped
15
16
      TIMN.
17
                  MS. HONDORF:
                                 Right. And they all
      came to us through the Arch case. We have not
      gotten any documents through that repository. If
20
    you want to check through your co-counsel, I
21
      suggest you do it.
```

23 counsel in the case they came from?

24 MS. HONDORF: They came to us in

MR. McCONNELL: Do you know which

25 boxes.

22

```
MS. TYLER: I would direct your
 1
      attention to a document entitled TIMN 0124603,
 2
      which has at the very top "Confidential," and
 3
      then again, "Confidential Minnesota Tobacco
      Litigation."
                   MS. HONDORF: And I will also
 6,
      instruct you that they had to be stamped Arch
      confidential or they were not confidential.
      that's the way the protective order reads.
                 MS. TYLER: I'm confused by your
10
     representation, counsel. If they were marked
      Arch confidential, then I would presume that they
12
      are confidential for other matters apart from
13
      Arch
14
                This is stamped confidential
15
     Minnesota Dacco litigation. And I am
     intimately familiar with the fact that there is
17
      not only one level of confidentiality within
18
     Minnesota but no less than three levels of
20
    confidentiality within Minnesota.
                   And I think in the exercise of
21
      caution these documents should not be discussed.
22
                                 I'm going to take a
23
                   MS. HONDORF:
      contrary opinion and tell you that they were
24
      produced to us without a confidential stamp, they
2.5
```

```
were produced in Arch, and you're incorrect.
 1
 2
                   MR. PURVIS:
                                 I heard you say on the
 3
      record that you received these from plaintiffs'
      counsel.
                That does not necessarily mean they
      have been produced in the Arch case.
 6 🛭
                   MS. HONDORF: They were produced in
      the Arch case and sent to the standard document
      repositor📎
                   MR. PURVIS:
                                 This witness has not
10
      signed the innesota confidential order.
11 not entitled to see these documents.
      going to show them to him.
13
                   MS. HONDORF:
                                  You're incorrect.
                   motion.
                            We'll do whatever we have
15
         do.
16
                   MR. PURVIS:
                                That's fine.
17
                   MS. HONDORF:
                                 Then I guess the
      deposition
                    over.
                   MR. LEFKOWITZ: I will put on record
19 📟
20
     that we can adjourn today's deposition with the
21
     understanding that in the event we end up going
    pefore the judge and obtaining an order with
22
23
      respect to these documents or decide to file a
     motion to compel or some other type of motion
25
     with respect to the documents that were subject
```

```
1
      to the deposition notice and the request for
 2
      production of documents, that we would ask that
      Professor Parrish be reproduced for the purposes
 3
 4
      of continuing his deposition.
                    So subject to those two caveats, I
      can agree to adjourn today's deposition.
 6
 7
                    MR. PURVIS:
                                 We won't agree to the
 8
      caveats. The witness is here.
                                        If there are
      other matters that you want to question him on,
      he's available.
10
                        I suggest you proceed to
     question become those. Obviously if your
      position is upheld by the Court, you may be able
         ask to reopen the deposition to cover these
13
       rivileged documents, confidential documents.
15
                   MS. HONDORF:
                                  Mischaracterization of
      the document
16
17
                   MS. TYLER:
                                Do we want to go off?
                   MR. LEFKOWITZ:
18
                                    Let's go off the
      record.
20
                   THE VIDEOGRAPHER:
                                       We're going off
21
      the record.
                   The time is 1:35 p.m.
                    (Discussion off the record.)
22
23
                   THE VIDEOGRAPHER:
                                       We are back on
24
                   The time is 2:02 p.m.
      the record.
25
                   MR. PURVIS:
                                 For the record, during
```

```
the break we've conferred with counsel for the
```

- 2 plaintiffs. We've agreed that we disagree. It's
- 3 my understanding the plaintiffs' counsel wants to
- 4 adjourn the deposition and seek relief from the
- 5) \Court.
- It is our position, as stated
- previously, that Professor Parrish is here,
- 8 available for several more hours if plaintiffs'
- 9 counsel wants to question on other matters, and
- 10 that we are here and available to do so. But
- 11 it's my understanding plaintiffs' counsel wants
- 12 to adjourn at this time.
- 13 MR. LEFKOWITZ: Well, we're prepared
- 14 to adjourn at this point in time. We would be
- 15 prepared to continue forward with the deposition
- 16 if the documents that we had sought by way of our
- 17 request for production of documents had been
- 18 produced the y or made available for us.
- But since they weren't, we are
- 20 unable to ask questions with respect to that
- 21 information. And since counsel for the
- 22 defendants has refused to allow the witness to
- 23 answer questions with respect to Parrish
- 24 Deposition Exhibit 10, in fact refused to allow
- your own witness to examine the documents, we

```
have no choice at this point in time other than
to recess the deposition.
```

MR. PURVIS: Addressing your first point, this witness has responded completely in compliance with the spirit of production in the Barnes case, as exhibited by the witnesses for the plaintiffs.

In fact we've exceeded that by

9 providing you with full documentation of the

10 documents are cited in Professor Parrish's

11 affidavit, which I have noted for the record you

12 have not asked a single question about.

13 R. LEFKOWITZ: I have no further 14 questions, subject to --

15 R. MONICA: Let's make clear what 16 Pe're going to do with the documents.

MR. PURVIS: The documents, some 20

18 to 25 documents with TI Minnesota Bates numbers

19 on them, have been placed and sealed in an

20 envelope. They're going to be given to the court

21 reporter who will provide a representative of

22 each side with a copy of those documents, and

23 then there will be investigation by both parties

into the origin of these documents so I presume the matter can be brought to the attention of the

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```
1
       Court.
  2
                    MR. LEFKOWITZ:
                                     That's fine.
 3
                    MR. PURVIS:
                                  If you're finished, I
 4
       have just one question.
       EXAMINATION BY MR. PURVIS:
 6
                    Professor Parrish, have you ever
      reviewed any documents that have Bates numbers on
       them with the prefix TIMN?
 9
              No
                    MR. PURVIS: No further questions.
10
11
                  THE VIDEOGRAPHER:
                                        This marks the
12
      end of the deposition of Professor Parrish.
      number of wideotapes used was two. We are going
13
          the
              record.
                        The time is 2:05 p.m.
15
                     Thereupon the proceedings were
                 a. 2:05 p.m.)
16
       djourned
17
18
19
20
21
22
23
24
25
```

```
DISTRICT OF COLUMBIA, to wit:
 1
                 I, Lee A. Bursten, before whom the
 2
      foregoing deposition was taken, do hereby certify
 3
      that the within-named witness personally appeared
 4
      before me at the time and place herein set out,
      and after having been duly sworn by me, according
 6
      to law, was examined by counsel.
                I further certify that the examination
 8
      was recorded stenographically by me and this
      transcript a true record of the proceedings.
10
                 Purther certify that I am not of
11
      counsel to any party, nor an employee of counsel,
          related to any party, nor in any way
13
       nterested in the outcome of this action.
14
                 witness my hand and notarial seal
15
            141TH
                             C)cmBCR
                  Cay of
17
18
                                  LEE A. BURSTEN
19 🟁
20
                                  Notary Public
                               DC - 5/14/00
         COMMISSION EXPIRES:
21
22
23
24
25
```

```
CERTIFICATE OF DEPONENT
 1
                 I hereby certify that I have read and
 2
      examined the foregoing transcript, and the same
 3
      is a true and accurate record of the testimony
 4
      given by me.
                Any additions or corrections that I
 6
      feel are necessary, I will attach on a separate
      sheet of paper to the original transcript.
10
11
                          MICHAEL E. PARRISH, Ph.D.
12
                I hereby certify that the individual
13
       epresenting himself/herself to be the
      above-named individual, appeared before me this
15
                           _____, 1997, and
      executed the above certificate in my presence.
16
17
18
                         NOTARY PUBLIC IN AND FOR
19 888
20
21
      MY COMMISSION EXPIRES:
22
23
24
25
```

```
MICHAEL E. PARRISH, Ph.D.
 1
      WITNESS:
 2
      DATE:
              September 30, 1997
 3
      CASE:
              Barnes et al. v. American Tobacco
 4
                 Please note any errors and the
      corrections thereof on this errata sheet.
 5
                                                     The
      rules require a reason for any change or
 6
 7
      correction. It may be general, such as "To
      correct stenographic error, " or "To clarify the
                   "To conform with the facts."
                     CORRECTION
10
                                    REASON FOR CHANGE
11
12
13
15
16
17
18
19
20
21
22
23
24
```

25

IN THE UNITED STATES DISTRICT COURT FOR THE EASTERN DISTRICT OF PENNSYLVANIA

WILLIAM BARNES, et al.,

Plaintiffs

CIVIL ACTION

NO. 96-CV-5903

THE AMERICAN TOBACCO COMPANY,

Defendants.

DEPOSITION NOTICE OF EXPERT WITNESS WITH DOCUMENT REQUEST

Please take notice that Paintiffs will take the video taped deposition of Michael E. Parrish, Ph.D. commencing on Tuesday, September 30, 1997, at 9:30 a.m. at the offices of Shook, Hardy & Bacon, 801 Pennsylvania Avenue, NW, Washington, D.C. phone: (202) 783-8400, and continuing thereafter until completed.

DOCUMENT REQUEST

Plaintiffs hereby equest pursuant to the Federal Rules of Civil Procedure that the witness produce at said deposition for inspection and copying:

all articles, reports and papers, published or unpublished,

a. written whe witness, whether located at any office, private residence, or other location; and/or

The words "articles, reports and papers" are used herein and throughout this Deposition Notice Of Expert Witness With Document Request in their broadest sense and include in include in include in include in include in include in include in include in include in include in include inclu

LAW OFFICES SHELLER, LUDWIG & BADEY EXHIBIT NO. 1
9 30/97

- b. in the witness' possession, whether located at any office, private residence, or other location; and/or
- c. under the witness' control, whether located at any office, private residence, or other location.

The witness' entire file related to this action, including, but not limited to, all documents², medical records, charts, graphs, pictures and/or other documentary and/or tangible evidence in any way relied upon in connection with said witness' testimony, opinions, reports and/or consultation, and/or to be relied upon at time of trial.

Each and every record, document and/or writing reviewed, consulted and/or relied upon in anyway by said witness in connection with said witness' testimony, opinions, reports and/or consultation, and/or to be relied upon at time of trial.

Each and every record, document and/or writing which has been seen by and/or provided to said witness in connection with said witness' testimony, opinions, reports and/or consultation, and/or to be seen by and/or provided to said witness at any time.

Each and every document, record and/or writing which has been produced, generated, drafted, and/or prepared by said witness in connection with said witness' testimony, opinions, reports and/or consultation, and/or to be relied upon at time of trial.

Any and all articles, reports and papers, published or unpublished, journals, treatises, authoritative texts and/or other literature reviewed, consulted and/or relied upon in any way by said witness in connection with said witness' testimony, opinions, reports and/or consultation, and/or to be relied upon at time of trial.

Any and all articles, reports and papers, published or unpublished, journals,

The word "document(s)" is used herein and throughout this Deposition Notice Of Expert Witness With Document Request in its broadest sense and includes any original, reproduction or copy of any kind, whether typed, recorded, graphic, photographic, printed, written, computer data, computer disc, electronically stored data/information or documentary matter, including without limitation correspondence, memoranda, interoffice communications, notes, diaries, records, contracts, documents, drawings, diagrams, plans, specifications, estimates, vouchers, permits, written ordinances, minutes of meetings, invoices, billings, checks, reports, studies, telegrams, notes of telephone conversations, and notes of any and all communications in every other means of recording any tangible thing, any form of communication or representations, including letters, words, pictures, sounds or symbols or combinations thereof.

treatises, authoritative texts and/or other literature which said expert believes will bear upon his or her testimony and/or upon which he or she will rely in formulating any opinion in connection with said witness' testimony, opinions. reports and/or consultation.

Any and all correspondence and other documents to and/or from said witness to and/or from any Defendant and/or its attorneys.

Each and every document, record or writing provided by said witness to any Defendant and/or its attorneys, including, but not limited to, medical records, writings, literature, photographs, analyses, curriculum vitae, and/or any other tangible evidence.

Any and every deposition transcript and/or trial testimony taken of the witness.

Respectfully submitted.

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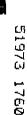
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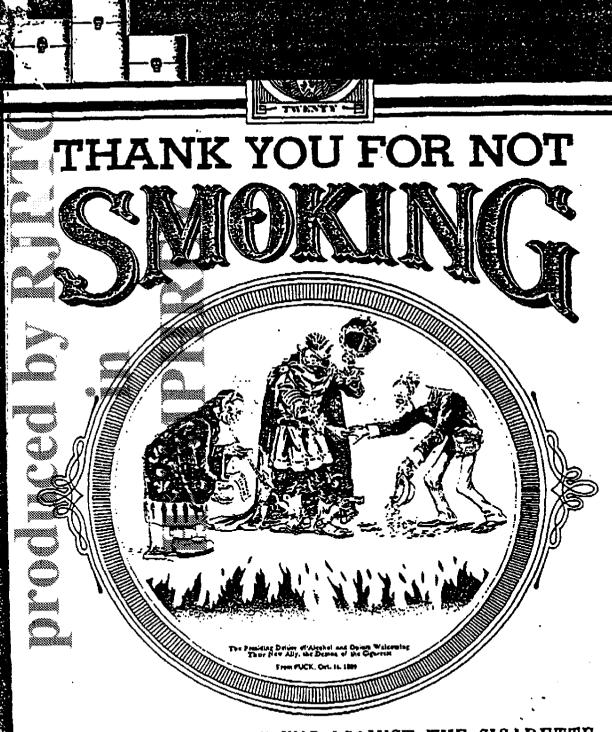
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THE HUNDRED-YEAR WAR AGAINST THE CIGARETTE American Heritage BY GORDON L. DILLOW

famish

t was like any other Tuesday lunch hour, until the sheriff's deputies walked in Mr. Ernest Bamberger, general I manager of the Keystone Mining Company and recent (unsuccessful) Republican candidate for United States senator, and Mr. John C. Lynch, manager of the Salt Lake Ice Company, finished their meals at the Vienna Café, an unpretentious but respectable businessmen's restaurant on Salt Lake City's Main Street, and prepared to savor their customery post-lunchoon eigers. A few tables away, near the back of the crowded establishment, Mr. Edgar L. Newhouse, department manager for the American Smelting and Relining Company, paused briefly in his conversation with Mr. R. Receles of Ogden to light a cigarette. At the same time, Mr. Ambrose Noble McKay, general manager of the Salt Lake Prisone, lighted his cigar packed up his check, and went over to the counter to pay it.

None of the gentlemen's actions sparked any apparent interest among the other restaurant patrons. Certainly no one with the possible exception of Mr. J. J. Burke, a Salt Lake contracting engineer--- suspected them any overt criminal activity. As they smoked, chatted and pondered the upcoming afternoon's affairs-or, in McKay's case, waited impatiently for the counterman to talk up the bill—they remained completely unaware that they were only a few minuter away from a calemity that not only would make them the outraged subjects of a public sp-ctacle but also would result in their good names being hundled about in newmaners across the country. Had they suspected they were in such danger they easily could have destroyed the incriminating evidence with a simple twist of thumb and forefinger. But they did not, and a see moments later, even before the ash on Bamberger's cigar required attention; they were guglit flagrante delicto by Salt-Lake County sheriff's deputies Michael Mauss and John Harris,

The two deputies entered the seems Café at half-past noon and walked directly to the table occupied by Bamberger and synch where they displayed their bedges and promptly placed the men under arrest. While Deputy Harris stood guard over the pair. Deputy Mauss walked to the rear of the café, where he arrested Newhouse. Eccles, Newhouse's luncheon companion, escaped arrest only by gesticulating with an unlighted cigarette and proving to the deputy that although he had obviously intended to commit a crime, he had not yet done so, and therefore was not subject to arrest. Deputy Maus agreed.

Meanwhile, McKay, who had finally succeeded in paying his lunch bill and was preparing to leave the cafe, was loudly denounced as a co-offender by Mr. Burke, who pointed a finger at the departing McKay and told Deputy Harris that he also should be arrested. Perhaps fearing an escape attempt by Bamberger and Lynch, Deputy Harris made no move to apprehend the fleeing newspaperman.

The two deputies then escorted their three protesting prisoners through the highly agitated throng of customers and conlookers (the Vienna Café may have been unpretentious, but arrests on the premises were uncommon enough to generate a great deal of excitement). Since no patrol car was available,

Mr. Bamberger, Mr. Lynch, and Mr. Newhouse were then marched down Main Street, in full and humilizing view of friends, business associates, and passers-by, to the county jail some blocks away, where they were charged and booked like so many common criminals.

Which they were, since they—along with McKay, who as a result of some rather undignified snitching by his accomplices in crime was soon to become the object of a similar criminal complaint—openly had violated Section 4, Chapter 145, of the Utah state code. The four men had been smoking in an epolosed public place.

There is considerably more to this story—more arrests. mass meetings, the eventual surrender of McKay, and so on, all of which will be discussed later. But the most interesting aspect of the incident is not that several otherwise law-abiding citizens were arrested for committing such a widespread and popular crime, nor even that they were sufficiently prominent in the community to ensure a great deal of bad publicity for the state of Utah. What is most interesting about the incident at the Vienna Café is simply the year in which it occurred-1923. For despite widespread belief to the contrary, tobacco smoking's sorry reputation did not begin with Surgeon General Luther Terry's famous 1964 report. which as we will see was actually a rather mild document in comparison with earlier works on the subject. Nor is the recent legislative attack on smoking a modern phenomenon, since by the time Mr. Bamberger and his colleagues lighted their ill-fated smokes more than a dozen states had passed laws that make today's legislative antismoking efforts seem almost benign. The fact is that the truly golden age of the antismoking movement in America began in the 1880's, when a new and deadly manifestation of the amoking habit first apeared in large numbers on the American scene. It ended four decades later, during a Tuesday lunch hour at the Vienna Café.

The world's first antismoking tract—the opening shot in the conflict that would eventually lead to Barnberger's arrest-was published in 1604 by England's James I, one of history's most famous tobacco-phobes. Entitled "A Counterblaste to Tobacco," James's treatise ridiculed the medicinal and prophylactic properties then ascribed to the plant, excoristed his pipe-smoking subjects for wasting their money and befouling the English air, and finally concluded with a famous—and, to nonsmokers, still applicable-peroration: Smoking, James said, was "a custome lothsome to the eye, hatefull to the Nose, harmefull to the braine, daungerous to the Lungs, and in the black stinking fume thereof, necrest resembling the horrible Stigian smook of the nit that is bottomelesse." Unfortunately, as James and his antismoking successors found out, the habit once adopted is a difficult one to break, on either an individual or national basis and smoking continued unabated in England

The story was much the same elsewhere, as kings and potentiates throughout the known world found that no amount of whippings (Russia), beheadings (Turkey), nose slittings (India), and other extreme measures could suppress the habit.

Murad IV of Turkey is typical of the early Eastern antismoking crusaders. Determined to enforce the royal no-smaking edick. Murad reportedly prowled the streets of seventeenth-century Istanbul incognito, according suspected tobacco sellers, begging them to sell him a small quantity, effering them payment far in excess of the going rate and wearing eternal secrecy. Then, if the merchant's greed overcame his caution and he produced the forbidden substance, Murad would personally behead him on the spot, warning. But despite Murad's efforts, smoking continued—prospered, actually na Turkey. (Poetic justic was served almost three conturies ater when Turkish tobacco tigarettes called "Murads"esturing testimonials by the statestanate Fatty Arbucklebecame one of America's most popular brands.)

In contrast to European and Oriental antismoking cam-

paigns, early American efforts were mild. In the 1630's the Manufacto colony banned tobacco sales and public smoking public being defined seans place where more than one person was present. In the 1640's Connecticut also banned public smoking and required smokers to obtain a smoker's permit. These laws generally were ignored, however, particularly after the clergy took up the habit; Massachusetts some repealed its prohibitions the Comnecticut ones eventufaded away; and smoking vanished as an issue for the

next one hundred and lifty years.

It resurfaced in 1798, when De Benjamin Rush published an every called "Observations upon the influence of the Habital use of Tobacco upon Realth. Morals and Property. Smilling and tobacco chewing we harmful to the mouth, store en, and nervous system. The Rush observed, in addition to being generally filthy and expensive habits. The doctor went on to draw a direct cause and-effect relationship between tobacco use and deserveness, a correlation that washingersist throughout subsequent antismoking campaigns. Dr. Rush was followed by a number of antismoking reformers. Dr. Joel Shew, for example carefully cataloguedolten in repellent detail-some eighty-seven maladies directly attributable to tobacco use, including insanity, cancer, and hemorrhoids. The eugenicist Orson L. Fowler believed tobacco possessed certain aphrodisiacal propertiesobvious a more damning charge then than it would be today and warned. "Ye who would be pure in your lowestratistics, cast this sensualizing fire from you." The Reverend George Trask, author of the widely circulated 1852 tract "Thoughts and Stories for American Lads" (subtitled "Uncle Toby's Anti-Tobacco Advice to His Nephew Billy Bruce"), pioneered the misuse of statistics in warning of the dangers of tobacco. "Physicians tell us that twenty thousand or more in our own land are killed by [tobacco] every year," Trask wrote in 1859. "German physicians tell us that of deaths of men between the ages of eighteen and twenty-five, one-half originate from this source." Joining in the ante-bellum antismoking campaign were such men as Horace Greeley (who described a "long nine" cigar as "a fire at one end and a fool at the other"), Henry Ward Beecher, and even P. T. Barnum.

But despite the best efforts of Uncle Toby and his allies, smoking remained a minor cause in an era filled with great ones and by the beginning of the Civil War, antismoking "agitations" (to use the contemporary term) had all but died out. What finally brought the movement back to life was a sleek and—to some—rather stylish little European import that eventually would outrage American antismokers more than any previous manifestation of the tobacco habit. We are speaking of course, of the "coffin nail," the "little white slaver," the "little white hearse plume" -the cigarette.

(a) igarettes apparently were developed in Latin America and later turned up in seventeenth-century Spain as a Wind of poor man's cigar. Precisely how or when they first appeared between American lips is uncertain, but by 1854 imported eigerettes were common enough—in cosmopolitan New York City, at least-to attract the attention of one Dr. R. T. Trail, who noted with unconcealed disgust that "some of the ladies of this refined and fashion-forming metropolis are aping the silly ways of some pseudoaccomplished foreigners, in smoking Tobacco through a weaker and more feminine article, which has been most delicately denominated cigarette."

Cigarettes hardly took the country by storm, however, by 1865 fewer than 20 million were manufactured in the United States (compared with 695 billion in 1978), all of them hand-tolled by urban workers, all composed of expensive imported tobacces and most if not all of them smoked by those same citified and upper-class souls who so agitated Dr. Trall. By 1880 American rigarette production reached 500 million a year, but eigurenes remained an almost inconsequential aspect of the trisecon trade, then dominated by chewing tobacco, eigurs, and pipe tobacco. Still, they clearly were catching on: by 1885, following the invention of a practical cigarette-rolling machine and a shift to domestic tobaccos. elgarette production passed the one-billion-a-year mark. By 1890 it topped two billion, and by 1895 some four billion cigarettes were manufactured in America, bearing such now-forgotten brand names as "Cameo," "Duke's Best." "Sweet Caporal," "Virginia Bright," and "Old Judge." Makings for millions of "roll-your-own" cigarettes also were sold every year.

Despite those seemingly dramatic increases, eigereite quickly developed a most unsavory reputation. First, their newness made them easy targets for the vilest runnoff. cigarette papers were said to be saturated with opium, erosnic. and other poisons. Cigarette tobacco reportedly was gleane from eigar butts retrieved from urban gutters by derelicts and street urchins. More revolting was the widely circulated report that eigerette-factory workers uninated on the tobactor to give it "bite." The fact that cigarette moke was inhaled practice not usually associated with eight or pipe smokingmade the alleged "adulterations" even more dangerous. Cigarettes also faced severe "image" problems in the inch nineteenth century. Their association with city types -- 1: noted by Dr. Trail—hardly improved their reputation and is the rural populace, and in contrast to the manly tiges, and

CONTRACTOR ON PACE 101

From the start, the anticigarette forces had sto contend with the sacatchiest names and * lashiest packs the monposition could invent The brands shown in . ship portfolio were exproduced between the 1890's and the 1940's. Mill have vanished Infrom today's market save for "Home Kun, tarchore batter has interior up for almost a secentury now_









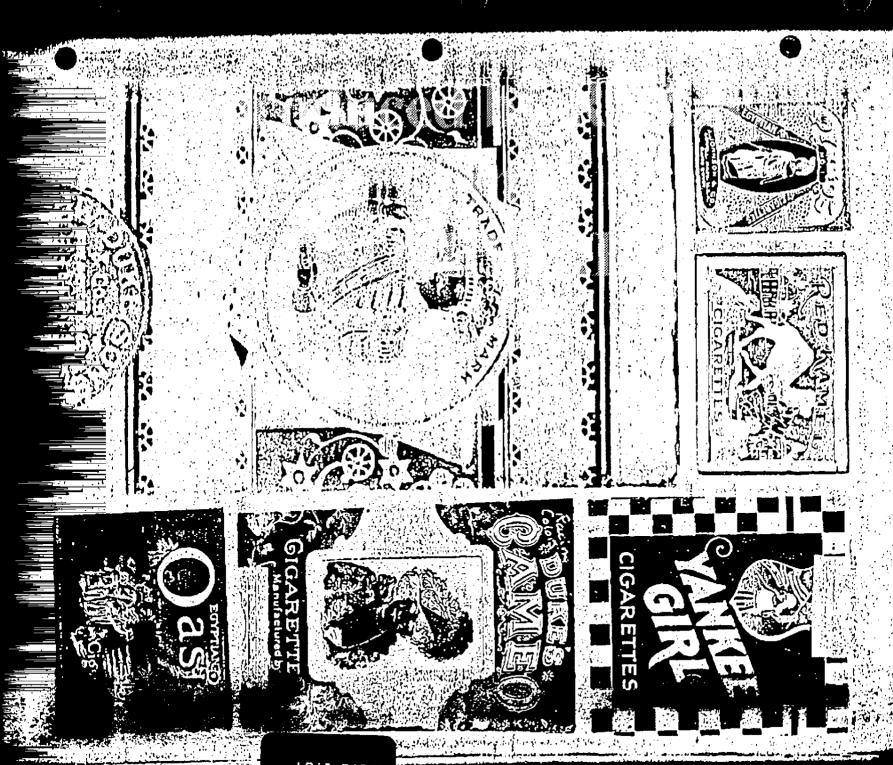


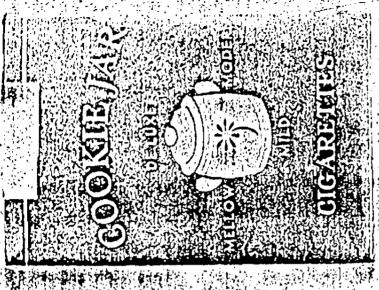




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CIGARETTES



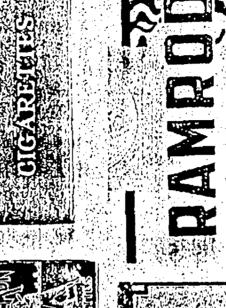














SUMMER BREEZE

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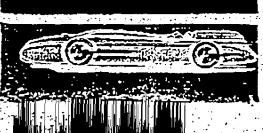






IT'S TOASTED"

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CHOTTON, KID PER PAR PARKE SAN

reflective pipe, and the humble but honest chew, eigarettes seemed to be genred more toward a woman's taster than toward a mon's. The "ette" suffix by itself gave off a diminutive and therefore feminine air, and brand names such as "Opera Puffs" and "Pearl's Pets" did little to offset this.

"The cigarette is designed for boys and women." The New York Times decided in 1884, summing up the prevailing view. The Times added that "the decidence of Spain began when the Spaniards adopted eigerettes, and if this pernicious practice obtains among adult Americans the ruin of the Republic is close at hand." While the Times may have exaggerated in assessing the impact of eigerettes on the national sesting, it was correct in predicting that they would appeal to women in ever-increasing mimbers. Still, public smoking by women was rare in the nineteenth century, and eignierie manufacturers carefully avolded any overt appeals to the female smoking market. (In fact, not until the 1920's world generate advertisers date to partray an American woman even holding a cigarette. It's worth noting that "Mariboro" brand eigarettes, whose lifter-tipped descendants would become the favorite species of that quintessential rugged American, the Marlboro Man, were among the first to open pursue the female smoker, using an alliterative—but most annugged—slogani "Marbaron Vild as May.") Although women smokers would become the object of antismoking efforts within a few decades, I was boy smokers who provided the initial local positional -- coming causade.

The series were particularly appealing to boys, since they sere cheap enough (at ten or turnet: for a nickel) and District enough to allow even the small st boy to emulate his pipe and cigar-smoking elders witiout suffering the drastic that pipes and eigans usually inflicted on immanagemokers. By the mid-1980 spigarette-smoking boys were accommon sight on any utban street corner, and even rural areas had their youthful "eigsveite fiends." Cigarette manufacturers, for their part exacerbated the problem through the use of cards and coupons, one or which was placed in every pack. They bore a photograph or lithograph on one side and usually an explanatory note on the other, and each was one of a numbered set, the object being to collect all the cards in any given set. Later James B. Duke of W. Duke, Sons & Commo in 1890 would combine the five largest cigarette companies into the American Tobacco Company, also known as the Tobacco Trust) pioneered the coupon system, whereby a specified number of "vouchers" found in cigarette packs could be redeemed for a lithograph album. Card sets bore such titles as "Fifty Scenes of Perllous Occupations," "Lives of Poor Boys Who Became Rich," and "Flags of All Nations" among dozens of others. Perhaps even more educational were such series as "Actresses," "Gems of Beauty," and Duke's popular "Sporting Cirk" album (available for seventy-five coupons). All the cards and albums were in great demand by the younger set, who traded and gambled them with all the adolescent fervor later afforded bubble-gum baseball and football cards.

Parents, on the other hand, were outraged.

There is no question that demands more public attention than the prevailing methods of cigarette manufacturers to foster and stimulate smoking among children. one trate New Yorker said in 1868, presaging a complaint that would continue, with considerable justification, for the next minety years. "At the office of a leading factory in this city you can see any Saturday afternoon a crowd of children with vouchers clamoring for the reward of self-inflicted injury."

Nor were the "self-inflicted injuries" courted by young smokers confined to the potential, long-term maladies—lung cancer, heart disease, and so on—now associated with eigarette smoking. On the contrary, in the 1880's and 1890's the eigarette's effects on smokers were thought to be not only immediate and debilitating but also often fatal. Consider the following case, as reported by The New York Times in 1890.

CIGARETTE SMOKING KILLED HIM

"New Jersey.—The death of eight-year-old Willie Major, a farmer's son, from excessive eigarette smoking is reported from Bound Brook. The boy had for over three years been a victim to the habit. He would stay away from home several days at a time, eating nothing but the herbs and berries of the neighborhood and smoking constantly. Sunday he became ill and delirious. He died Tuesday in frightful convulsions."

There were dozens, perhaps hundreds of similar case histories.

Even if death did not immediately claim the young smoker, failing health surely would. Among the maladies attributed to eigatette smoking were color blindness, "tobacco ambylopia" (a weakening of the eyesight), buldness, stunted growth, insanity, sterility, drunkenness, impotence (or sexual promiscuity, depending on the point to be made), mustaches on women, and that traditional bugaboo of nineteenthcentury America, constipation. No less alarming was the moral dissipation caused by eigerettes, a process cogently described by New York school commissioner Charles Hubbell in 1893. "Many and many a bright lad has had his will power weakened, his moral principle sapped, his nervous system wrecked, and his whole life spoiled before he is seventeen years old by the detestable cigarette. The 'cigarette fiend' in time becomes a liar and a thief. He will commit petty thefts to get money to feed his insatiable appetite for nicotine. He lies to his parents, his teachers, and his best friends. He neglects his studies and, narcotized by nicotine, sits at his deak half stupefied, his desire for work, his ambition, dulled if not dead."

For all these reasons, cigarettes had by the 1890's managed to arouse the ire of a major portion of the American public, pipe and cigar smokers included. It was thus only to be expected that parents, teachers, juvenile authorities, and particularly reformers would agree wholeheartedly with the sentiment (if not the grammar) of the following plea, published by the Annapolis Evening Capital in 1886 and echoed by antismokers for the next forty years: "Something heroic must be done for the suppression of this monstrous evil...

or the coming American man will be a pigmy and a disgrace to their race. Let our Legislature come to their rescue."

The Maryland legislature, perhaps fearful of the state's tobacco industry, falled to respond to the plea. Other legislatures would not be so timid.

earner in the 1890's. Cigarettes were the primary target; pipes and eigars initially were archided from the bartle, but later the scope was broadened to include public smoking in any form, as Mr. Bamberger and his associates would find out. Although the campaign attracted a number of creanisations and individuals, particularly the Women's Christian Temperance Union its most indefatigable warrior associates almost forgotten WCTU alumns named Lucy Page Gaston.

Boggin Ohio in 1860 and raised in Minois, she came early to the reform business when, as a student at the Illinois State Normal School, she led raids on local saloons and tobacco shops. She began her anticiganting campaign in the early 1890's, after ten years as a schoolteacher and Sunday-school instructor and after having been a full-time WCTU worker and journalist. Initially she confined her efforts to the Chicago area, but in the late 1890's she branched out into neighboring states, addressing school and otherch assemblies (audiences already primed the thousands of antismoking tracts distributed by the WCTU), organizing girls and boys articigarette organizations and administering the "Clean Life Pledge en masse: "I hereby pledge myself with the help of God to abstain from all intoxicating liquors as a beverage and from the use of tobacco in any form. Pledgees were entitled to wear the Clean Life Button. Convinced that anticigarette legislation was necessary to protect the youth of America. Gaston haunted city halls and state capitois, demanding prompt action and, to that end making life miserable for any state legislator or town councilman unjucky enough not to see her seming. Once anticigate laws or ordinances were passed she pressed for strict enforcement. The Chicago police



Thomas Edison chastises a young addict in a 1916 pamphlet published by the inventor's friend, Henry Ford.

chief, no doubt weary of Gaston's prodding, finally deputized her to arrest violators of the new antismoking laws, and within ten years she went to court more than six hundred times to prosecute tobacco dealers who sold their wares to children.

In 1899, with the financial and moral backing of a group of Chicago businessmen, Gaston founded the Chicago Anti-Cigarette League, which spawned similar leagues throughout the Midwest. In 1901 several hundred anticigarette leagues, claiming a combined membership of almost 300,000, were loosely combined as the National Anti-Cigarette League, with Lucy Page Gaston as superintendent. The goal of the National Anti-Cigarette League (later renamed the Anti-Cigarette League of America and still later the International Anti-Cigarette League) was simple: the total abolition of the cigarette from American life, by force of law if necessary.

There were some early reversals in the campaign. In 1892 Congress was deluged with petitions from WCTU groups stating that cigarettes were "causing insanity and death to thousands" of American youths and demanding federal abblition of the cigarette trade. The Senate's committee on epidemic diseases studied the eigarette problem but concluded that it was a state matter. A year later Washington prohibited the sale of cigarettes within the state-not only to minors, but to adults as well—but a few months later a federal court struck down the law. Still, by the turn of the century most states had benned cigarette and tobacco sales to minors. The anticigarette movement clearly was gaining momentum. Between 1895 and 1897 North Dakota, lowa, and Tennessee banned the sale of cigareties or cigarette papers, but the laws generally were ignored until 1900, when the U.S. Supreme Court upheld the Tennesses statute. The decision prompted the American Tobacco Company to notify its dealers in those states that it would no longer back them up if they were prosecuted for selling cigarettes, and cigarette dealers, fearing a crackdown by state authorities, scrambled to dispose of their wares. The court's decision also bolstered the spirits of the anticigarette forces and spurred them to greater efforts; by early 1901 anticigarette legislation was a major topic in state. capitols across the country, as the following Chicago Tribune headline makes clear:

STATES DECLARE WAR ON CIGARET
Movement Afoot To Suppress Use
Of Tobacco In Deadly Form
LAWS ARE BEING FORMED
Nearly Every Logislature Considering
Best Measures For Restriction
PROGRESS OF THE CRUSADE

The accompanying article revealed that only Wyoming and Louisians had paid no attention to the eigarette controversy, while the other forty-three states either already had anticigarette laws on the books, were considering new or tougher anticigarette laws, or were the scenes of heavy anticigarette activity. The pending legislation ranged from bans on sales to minors to a bill introduced in the Indiana legislature that would have banned public cigarette smoking by anyone, with violators to be jailed, fined, and "disenfran-

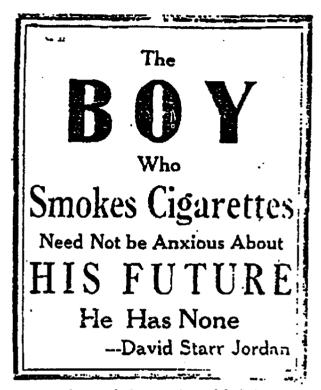
chised and rendered incapable of holding any office of trust or

Although bills to prohibit eigerettes were considered in more than a dozen states-including Illinois, Kansas, Michlgan, Minnesota, Nebraska, California, Montana, Massachuwetts, Maine, New Hampshire, Delaware, and even North Caroling-only the Oklahoma Territory prohibited cigarette sales sturing the 1901 legislative session, a development the imiteigarette forces attributed, with some justification, to the well-financed lobbying of the Tobacco Trust. Accusations of bribery were common whenever anticigarette bills were considered. When the Washington legislature considered its 1893 anticigarette law, for example, the Tobacco Trust reportedly dispatched a lobbyist to Olympia armed with twenty thousand dollars in cash to change legislators' minds, but he arrived too late to bring the largesse to bear. In Indiana in 1905 an alleged briber was forced to flee the country—with effect to see a street to the seed of the best with the tried to www.pro-cigurette vote. As an among mous source within the eigarette industry later recalled the situation. "A bill would be introduced to a legislature to prohibit the manufacture or sale of cignitates; it would be referred to a committee and our people would have to get busy and pay somebody to see that it died. Such heavy handed taking did little to endear the Tomacco Trust—which controlled nearly 90 per cent of American cigarette production—to the American public, and even after the Trust was obstensibly this rived by court order in 1911, the tough labbying activities of the successor tobacco companies continued to rankle

The defeat of any given anticipatette bill hardly resolved the matter, however, the anticipatette forces—Lucy Page Gaston in particular—were nothing if not persistent, and legislators could be sure that they would be back in the next session and if necessary, the next session and if necessary, the next session and if necessary, the next safe eventually, it seemed, they would win, since cigarettes had many enemies in legislative committee rooms and precious few friends. That was particularly true in the Midwest where cigarette consumption was low and anticiparette feeling high.

inticigarette successes continued to mount. Wisconsin and Nebraska banned cigarette sales in 1905. In that some year, Indiana prohibited even their possession, and inciana cigarette dealers tried frantically to dispose of their sales before the new law took effect; one overstocked dealer burned his in the street. Two years later Arkansas and illinois likewise banned cigarette sales, although the Illinois Supreme Court soon struck down the Illinois law on a technicality, a decision that prompted Lucy Page Gaston to initiate an unsuccessful campaign to allow the recall of state supreme court justices. Kansas. Washington, South Dakota, and Minnesota joined the cigarette prohibition ranks in 1909, and the day before the Minnesota law took effect, Minneapolis cigarette smokers reportedly bought more than a million to see them through the lean days ahead.

Where state governments failed to act, municipal ones often took the initiative. Even New York City jumped on the antismoking bandwagon, in a sexist sort of way, when in 1908.



The poster bearing the laconic advice of the biologist David Starr Jordan was probably issued about 1915

the Board of Aldermen passed an ordinance prohibiting public smoking by women. (The fact that such an ordinance was considered necessary indicates how rapidly women were taking up the habit.) The ordinance was vetoed two weeks later by Mayor McClellan, but not before twenty-nine year-old Katle Mulcahey was arrested and jailed for lighting a cigarette in front of a policeman and then compounding the crime by asserting, "No man shall dictate to me."

While legislators pendered anticigarette bills, the educational campaign continued. "There are in the United States to-day 500,000 boys and youths who are habitual eigarette mokers "Education magazine told its readers in 1907. "Few of them can be educated beyond the eighth grade, and practically all of them are destined to remain physical and mental dwarfs." The same publication later offered a number of terse case histories: "Case No. 1: Began babit at 4. taught by boys 6 and 7. Almost physical wreck now at 13. Sight poor, voice like a ghost, hearing impaired. Steak. In first grade." Or "Case No. 4: Began smoking at 10. Mind shattered at 14. Tried several positions, failed. A worthless losfer now." But boys were no longer the sole target of the antismoking campaign. Businessmen's views on the subject were being widely circulated, the general tone being that eigerette smoking was a handicap in the job tnarket. Montgomery Ward, Seats, Roebuck, and hundreds of other firms were said to discriminate against eigarette users, and one antismoker later

AVenturesome Girl



Only one kind of guilamoked, according to "Cigarette Neut" sehich ran this warning in its February, 1931, issue.

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cheerfully estimated that more than two million jobs were closed to them. A host of the farmer joined the anticigarette crusade, including Elbert Hubbard, author of "A Message to Cartia" and a lesser-known patripliet called "The Cigarettist". Thomas Edison, a cigar smoker who refused to hire cigarette smokers and Dr. Harvey W. Wiley, father of the 1900 Fure Food and Drug Act and suphor of a 1916 Good Hussels oring article called "The Little White Slaver." Even Henry Ford joined in, publishing at 16 a pamphlet called "The Case Against the Little White Slaver."

Other antismoking groups were formed, most notably the Non-Smokers Protective League of America, founded in 1911 by Dr. Charles G. Pease, a New York physician and dentist who regularly "arrested" smokers on trains, subways, and so on-activities which Dr. Pease later said earned him more than a dozen death threats and two "scouting" visits by local undertakers. Meanwhile, Lucy Page Gaston kept up the pressure. Fresh from her legislative victories in the Midwest, she took time out from publishing The Boy, the Anti-Cigarette League's monthly newspaper, to carry the fight to New York City in 1907 and again three years later. Although she failed in her attempt to have a cigarette prohibition law passed in Albany, both visits created a stir. In 1913 Caston and Dr. D. H. Kress opened a smoking-cure clinic in the Women's Temple in Chicago, the Anti-Cigarette League headquarters, and soon were flooded with repenitent eigarette smokers, mostly small boys but also a chorus girl or two. The "cure" consisted of painting the palate with a silver nitrate solution and chewing some gentian root whenever the smoking urge returned. Newspapermen who took it reported that the cure was very effective, in the short run at least, and similar clinics were soon in operation from Hoboken to Les Angeles.

In some respects, then, the late nineteenth and early twentieth centuries were indeed the golden age of the antismoking movement. Cigaretter were anothered to millions of Americans, and feeling ran so strong in some areas that a traveling Chautauqua company in anticigarette Kansas deemed it prudent to use a dairy instead of a cigarette factory as the backdrop for a production of Cormen. There was, however, one rather vexing problem: Americans were smoking more cigarettes than ever before.

Cigarettes had suffered somewhat during the early years of the campaign; between 1896 and 1901, after more than thirty years of constant growth, cigarette sales actually declined, reaching a low point of about two billion in 1901. But the drop was only temporary; in 1902, following a tax reduction and the repeal of an 1897 ban on cigarette cards and coupons, sales went up, and by 1906 they had neared their former high of five billion. In 1910 Americans smoked almost eight billion "Fatimas," "Meccas," "Hassans," "Helmars," "Murads," "Egyptian Deities," and others; in 1917 some thirty-five billion eigerettes—now with names like "Camels," "Lucky Strikes," and "Chesterfields"—were consumed.

As those brand names indicate, between 1910 and 1917 American amokers shifted away from the American-made Turkish or pseudo-Turkish brands that had dominated the market since the late 1890's. In the same period manufacturers dropped the use of coupons and prizes. "Camels," introduced by R. J. Reynolds in 1913, were responsible for both developments. "Camels" new blend of domestic and "cased" or sweeterned Burley tobaccos quickly developed a large following—most eigarettes still use the same basic blend-and "Camels" killed the coupon and prize system with the following message, printed on the back of every pack: "Don't look for premiums or coupons, as the cost of the tobaccos blended in CAMEL Cigarettes prohibits the use of them." The implication that coupons or prizes meant reduced quality was a master stroke, "Camels" soon captured more than a third of the American digarette market forcing the American Tobacco Company and Liggett & Myers to respond with the similarly blended "Lucky Strikes" and "Chesterfields." Cigarette cards and coupons quickly disappeared, although Brown & Williamson revived the coupon system on a very limited basis in the 1930's with "Raleighs."

only in spite of the extensive anticigarette activity but in some ways because of it. First, people simply liked cigarettes; they were cheap, easy to smoke, and were better suited than either pipes, cigars, or the ubiquitous rural plug for the frenetic pace of city life. Paradoxically, cigarettes were shedding their effeminate image while at the same time women were taking them up in ever-increasing numbers. Also, the antismokers' exaggerated claims of the cigarette's deleterious effects were impossible to sustain, and thus eventually proved self-deletating. Whatever reasonable argu-

ments the antismokers had to offer against cigarettes-and as recent developments indicate, they had the right idea but the lwrong criteria—were lost in the barrage of idiotic pronouncements and ill-considered "facts." (Physicians, particularly repelled by the hysteria, were quick to leap to the cigarette's defense; only in the past thirty years or so has the medical profession as a group joined in condemning eigerette smoking.) Finally, eigaretter banefited from that almost perverse quality of human nature that makes what is despised and outlawed by some people-particularly Sunday-school tenders and reformers—absolutely irresistible to others. By the beginning of the First World War, then, most even marginally sophisticated Americans regarded the anticigarette. antismoking cruside with cheerful ambivalence, an authors ricely summed up in the following pithy lines first published in the Penn State Froth in 1915:

Tobacco is a dirty weed. I like is
It satisfies no normal need. I like it.
It suches you thin, it makes you lead
It takes the hair right off your beau.
It is the worst darn stuff I've ever seen.
I like is

As popular antipathy toward eigenettes waned, so did the legislative fortunes of the anticiparette movement. The cigarette prohibition has had never been very effective anyways trate legislators had been easily pursuaded to pass them when faced with well-organized pressure groups, but enforcement was quite another matter. After the usual rush to dispose of for at least hide) their signifectes, tobacco dealers found that they could sell them without too much fear of prosecution. They were also easily available by mail, and in states where "giving away" cigarettes was not specifically prohibited matches sometimes were sold for ten cents with the cigarettes thrown in "free. In 1909 Indiana admitted de la repealed its eigerette prohibition law, leaving only the barren sales to minors. Washington followed in 1911, Minnesste, in 1913, Wisconsin and Oklahoma in 1915, and South Dakota in 1917. Even in those states where cigarette prohibition laws remained on the books, cigarette sales continued to climb. For the anticigarette movement it was's most disessuraging turn of events, and the worst-in the form of World War I-was still to come

The war did great things for cigarettes, and for smoking in general. No less an authority than General Pershing himself declared that tobacco was "as indispensable as the daily ration," and Army doctors sent home glowing accounts of the cigarette's salutary effects on wounded soldiers: "Wonderful," one Army surgeon reported from France. "Assoon as the lads take their first 'whiff' they seem eased and relieved of their agony." The home front responded enthusiastically to the call for more. An Army Girl's Transport Tobacco Fund and the National Cigarette Service Committee sent millions of cigarettes overseas, and even the YMCA, which previously had campaigned against smoking, sold and gave away cigarettes in the trenches. Finally, in 1918, the War

Department bestowed official government blessings on the smoking babit by making tobacco part of the daily ration. Cigarettes were no longer "coffin nails" or "little white slavers"; they were healthy, masculine, and—whoever would have thought it possible?—downright patriotic.

and that might have been the end of America's first great antismoking movement, and of this article, were it not for two important facts: first, we still have to get Bamberger and his colleagues out of the Salt Lake County jail, and second, in January, 1919, the Eighteenth Amendment was ratified by the states.

If the war provided a lift for cigarettes and smoking's social standing, passage of the "dry" amendment provided an even greater lift for the war-demoralized antismoking movement. If drinking could so easily be legislated out of existence, why not smoking? "Prohibition is won; now for tobacco." declared the evangelist Billy Sunday, and throughout the early postwar years rumors of an impending WCTU campaign to enact the "Nineteenth Amendment" were rife.

"The creaking tumbrel which carted King Alcohol to the gallows has been turned around and started back after Lady Nicotine," the Cincinnati Times-Star reported in 1919. "The time when the suggestion of tobacco prohibition could be laughed at has passed." the New York World warned, and even the moderate New York Times, noted that "the Nineteenth Amendment shoves a saintly nose above the horizon."

The WCTU and the Anti-Saloon League denied that tobacco was next on the prohibition hit list and at its "Victory Convention" in St. Louis in 1919 the WCTU vowed to continue its educational campaign against smoking but resoundingly defeated a resolution calling for an anti-



Lucy Page Gaston, who led the war on eigarettes, watches a youngster take the cure from Dr. D. H. Kress.

tobacco amendment. Reports of a tobacco prohibition drive were a plot by the "wets" to turn the country against alcohol prohibition, the WCTU charged.

Still there were signs that a new antismoking crusade—If not a concerted campaign for a tobacco prohibition amendment—was under way. In 1919 the Indiana legislature, for example, considered but did not pass a bill to not only ban all profile smoking—with offenders to be sentenced to hard labor—but to prohibit smokers from holding public office. This savage filth must cease, one Indiana legislator declared Presbyterians, Northern Baptists, and Methodists all called for a nationwide antismoking campaign, and even

Lucy Page Gaston got back in the bandlines.

Carron had fallen on hard tripper since the war. In December of 1919 a coup d'état at International Anti-Cigarette League headquaiters forced her to resign as league superintendent. She was not about to go away attender; the next day she anneariced her candidacy for President of the United States on the clean morals, clean food and fearless law enforcement" platform. Although Grant attually filed in the South Dakota Republican primary, she soon dropped out of the presidential campaign and set about reorganizing the old National Anti-Cigarette League In 1920 she invaded Kansas and led a drive for strict enforcement of Kansas' anticigarette w. Kansas law-enforcement authorities, harassed into action, made a few parfunctes areats. Gaston also wrote public latters to President-elect Warren G. Harding and to Queen Mary, urging them to quit amount cigarettes. Finally she proved to be more than even upright Kansas could handle; in January, 1921, an embarrance Kansas Anti-Cigarette League fired her, and Gaston set out for a new campaign in lows A few months later the National Anti-Cigarette League board of directors, noting that what Gaston called her "Carry Nation tactics" were no longer the most effective means of fighting the cigarette evil, also the ther. At sixty-one, after it wenty five years of anticigarette campaigning, Lucy Page Gaston was out of a job.

Despite all the postwar antismoking activity, the movement seemed to be foundering. Between 1919 and 1921





"I use it."

"I don't."

The doleful effects of nicotine on the teeth were revealed by Rev. George Trask in a mid-nineteenth-century tract.

Nebraska, Iowa, Arkansas, and Tennessee repealed their ineffective eigerette prohibition laws, and in 1921 the Idaho legislature first passed, and then almost immediately repealed a ban on eigerette sales. In fact, only one nate enacted a new, prohibitory anticigarette and antismoking law during the postwar antismoking campaign. That state was Utah.

Utah had banned cigarette sales to minors in 1896, but although eigerette prohibition bills were considered in later years. Utah generally muddled through the pre-war crusade without actively joining in. The postwar revival of that crusade found congenial ground in the state, however, particularly within the powerful Mormon church, and in 1920 a church publication hinted that the time had come for all-out war. By February, 1921, the church had lined up enough support to secure easy passage of a bill prohibiting cigarette sales, eigarette advertising, and smoking in any form in certain "enclosed public places," such as government offices, theaters, and-more germane to this article-cafes and restaurants. The bill sailed through the legislature with little public comment—no one really expected it to be enforced anyway-and was signed by Governor Charles Mabey. By June, 1921, cigarette sales and public after-dinner smokes were illegal in Utah, but as expected the new law ... affected Utah smokers hardly at all. Restaurant and theater / proprietors seemed unwillingly to enforce it themselves, and the sheriff's office and the police department bickered over who would have the thankless task. In the end, no one enforced it.

In 1922, however, Mormon church president Heber J. Grant urged Mormon voters to elect officials who would promise to enforce the new laws. Benjamin R. Harries vowed to do just that, and in November, 1922, he was elected Salt Lake County sheriff. Soon after he took office. Sheriff Harries ordered a number of raids on suspected cigarette dealers, whereupon the dealers paid homage to the law by hiding their cigarettes and charging bootleg prices for them. Sheriff Harries obviously decided that more dramatic measures were required, because on February 20, 1923, Mr. Bamberger, Mr. Lynch, and Mr. Newhouse found themselves in jail.

As if their march down Main Street had not been humiliating enough, the three men were then informed that each would have to post a ten-dollar bond before he could be let go. The implication that so measly a sum could substitute for their word of honor was simply too much; an argument ensued. The three finally were released on their own recognizance by Judge Noel S. Pratt, but not before they had chided deputies Mauss and Harris for not also arresting McKay. That did not help them, but it did result in another complaint being sworn. It was served by telephone, and McKay promised to sufrender himself the next morning. Later that day Newhouse told a newspaper reporter that the entire affair was a "frame-up" and a political ploy by Sheriff Harries and his "asinine deputies." Sheriff Harries dismissed the accusations as "bosh" and ordered his deputies to continue to enforce the law. The next day several deputies raided the Hotel Utah grill room and the state capitol (where the legislature was in session) and arrested six more smokers. The deputies were disappointed when they could find no smoking legislators to arrest.

The Salt Lake business community, then in the midst of a promotional campaign to attract new commerce and industry to the area, was horrified, not only by the arrests themselves but even more so by the awful publicity the entire episode had generated. Within twenty-four hours mickering news accounts of the Salt Lake antismoking campaign had been plastered across newspaper pages from New York to San Francisco, and already there were reports that scheduled conventions in the city would be canceled if it continued. While restaurant and cafe owners posted signs reading "Look Our for Mike and John meaning deputies Mauss and Harris-or, more defiantly. Dine and Smoke Here. members of the Salt Lake shamber of commerce met to plan a were of action. They soon were joined by representatives of the Salt Lake Lions Club the Utah Manufacturers Association and others A few days later, as steam whistles throughout the city were sounded to protest the controversial laws, the prosmoking faction convened a standing-room-only meeting at the Orpheum Theater. "From coast to coast and from Canada to the Gulf of Mexico Utah today is the object of particule," one businessman told the crowd. Others compared the specting to she floston Tee Facty as a symbol of resistance to oppression. The formation of a new political party-"The Party of Freedom -was announced, and Salt Lake City seemed about to be rent assimiler by the issue.

The pressure finally proved too such for even the strongest supporters of the antismoking laws. Within a week the Discret News, a Mormon publication, signaled partial surrander by endorsing a pending revision of the laws to allow signature sales to adults and seduce greatly the restrictions on public smoking. The amendment bill streaked through the legisliture and was signed to have doubt relieved Governor Mabes. Charges against Bambergerand his partners in crime were dropped. The Utah causage was over.

he Utah anticigarette law was the last of its kind: sithough North Dakots and Kansas kept theirs until 1925 and 1927, respectively, they were never seriously efforced. Utah having demonstrated that strict enforcement caused more problems than no enforcement at all. There were periodic calls for the abolition of eigarettes and smoking by the W. the Non-Smokers League, and others, but they never amounted to much; by the mid-1920's legislative action against smoking by adults had been thoroughly discredited. Antismoking emphasis shifted to women and children. The movement lost its most dedicated campaigner in 1924, when Lucy Page Gaston was struck by a streetcar as she left an anticigarette meeting in Chicago. She miraculously survived the accident to die eight months later of throat cancer. A delegation of schoolchildren recited the Clean Life Pledge at her funeral

Cigarette sales continued to climb, reaching the magical 100-billion-a-year mark in 1928. Organized antismoking activity virtually disappeared in the 1930's and 1940's, save

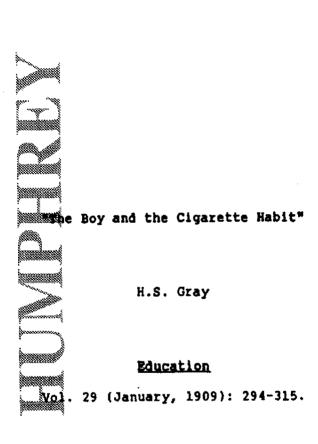


Black teeth, loose women, wrecked boyhood. and Lucy Page Gaston notwithstanding, America smoked on.

for occasional pronouncements by religious groups and some barbed attacks by the Reader's Digest. By the 1950's medical evidence against eigerettes began to reach mildly alarming proportions; in response, eigarettes sprouted filters and the tobacco companies began to diversify into nontobacco products. In 1964 Surgeon General Luther Terry dropped his bombshell and smokers began to worry. Cigarettes once again became the object of legislative action; packs carried health warnings, and the Marlboro Man rode off the television screen and onto the back covers of magazines. Nonsmokers began to demand smoke-free air in public, and states passed "indoor clean air acts." In 1976 the Utah legislature passed the Utah Indoor Clean Air Act, which prohibits smoking in certain "enclosed indoor areas," such as stores, offices, hospitals, and restaurants. So far the antismoking law has been generally ignored, due to a lack of funds for enforcement, and some Utah smokers continue to violate the law after every public meal.

State officials are planning a crackdown.

☆ Cordon L. Dillow is a free-lance writer from Missoula, Montana,



The Boy and the Cigarette Habit

H. S. GRAY, CHICAGO, ILLINOIS

MONG those who express themselves emphatically on the cigarette question are two classes of extremists. In one class are those who, when they find a boy who is stupid, neurotic, insane, a degenerate, a delinquent, or a criminal who is also a cigarette smoker, attribute his condition and his misdoings wholly or almost wholly to cigarette smoking. In the other class are those

who declare that cigarette smoking had little or nothing to do with the case and that cigarettes are being made a scapegoat. They do the same thing themselves that they condemn in their opponents i they go too far. In their desire to pose as broad minded they minimize the evil of cigarette smoking too greatly.

Each class irritates the other by their misstatements.

The public ses between these two extremes. The problem of determining to what extent cigarette smoking is the cause and to what extent the effect of a bad physical, mental and moral condition in a boy is a difficult one. The cigarette habit is partly cause and partly effect in the same person. The problem is always a complicated one because there are always other harmful factors along with the cigarette habit, such as some or all of the following—poor heredity, bad environment, malnutrition is bus associates, or other bad habits aside from the cigarette habit. But, however many factors enter into the case, cigarette smoking furnishes its quota of harm. Since cigarette smoking impairs the physical condition, it follows that the mental and moral faculties are also impaired, such is the interdependence between them.

One hears it said that cigarettes are the least harmful form of tobacco and also that they are the most harmful, and this "most" and "least" is another bone of contention. Those who say that cigarettes are the least harmful form of tobacco usually take into consideration only the small quantity of tobacco in cigarettes as compared with the larger quantity and stronger quality in a cigar or pipe. Too much emphasis

That there is a tendency to smoke cigarettes to excess is a matter of common observation and is often frankly admitted by cigarette smoke. Thirty to sixty cigarettes a day is not an unusual number for a cigarette fiend to smoke. Some have the proud distinction of exceeding even this number. Often the smokes does not know the number himself.

How hard it is to break off the cigarette habit after it has once gotten a how hold, everyone can see for himself. Not only does a common smoker crave more and more cigarettes, but in time they lead him to crave something still stronger, as many smokers admit. He gets to a point where he is not satisfied. The cigarettes. He wants cigars, then the strongest cigarettes in the takes to the use of liquor or drugs.

smokers, having heard the charge made that the tobacco in cigarettes is mixed with opium or other drugs and that the paper compins arsenic, roll their own cigarettes, thinking that by so doing they are escaping the injurious effects of cigarette smoking; but one kind is as injurious as the other. Cigarettes with nothing in them but tobacco and wrapped in paper that is free from poisonous admixture are sufficient to account for the sam done.

Young men frequently contend that cigarette smoking does them no harm and argue in defense of their practice that physicians themselved noke cigarettes, and that, if cigarettes were very injurious, physicians would not use them. The same might be said of the use of cocaine, morphine, etc. Judging from the frequent notices that appear in the daily papers of doctors whose lives have been wrecked by the cocaine or morphine habit, the percentage of doctors addicted to the drug habit must be large as compared with the number found in other walks of life. Almost everybody can recall at least one instance that has come under his personal observation of a doctor who has ruined his career or cut short his life by the use of these drugs. Out of one hundred and twenty-eight patients treated in one year in a certain private hospital for alcoholic

1973 1776

"I myself have not made any experimental observations respecting the effects of cigarette smoking on the health. I share the general idea that it is productive of great injury. This, I believe, is not particularly because the tobacco in cigarettes is different from that used for other purposes but because of the manner in which cigarettes are used and the age of the persons who use them. I think the greatest objection to cigarette smoking is the fact that it is practiced so extensively by very young persons. . . . Another objection to it is that the process of combustion of the cigarette enter the mouth and the lungs of the smoker with less purification and filtration than from either a pipe or a cigar. Another objection is the enormous mumbers that usually are smoked, for some reason the cigaritte habit being of such a character as to induce excessive smoking a I do not share the belief that cigarettes or the paper that waspetteem are treated with opium or arsenic or any other poisoners matter. This idea is, I think, undoubtedly a mistaken one I sympathize with those laws which forbid the smoking of cigarettes by minors. I am not a believer in sumptuary laws for people who have reached mature years and know their own business. I should be in favor of laws which would require the tobacco of cigarettes, as well as for other purposes, to be of the proper grade and to be properly branded. I am opposed to the name 'Turkish Cigarettes' when used on American tobacco. I should like to see all users of tobacco use it temperate and especially those who use cigarettes, which appear, as I have already stated, to be more likely to injure health than almost any other form in which tobacco is used."-H. W. Wiley, Chief of the Bureau of Chemistry of the United States Department of Agriculture.

"I wish to make the following statement from the standpoint of the practical ophthalmologist: Inasmuch as cigarette smoking (that almost always includes the inhalation of the smoke) is particularly hurtful to the eyes of adults above forty years of age, when indulged in to excess, I am distinctly opposed to its use by minors. I freely admit that the effects of tobacco upon minors are more easily demonstrated upon the heart muscle, the digestive apparatus, and the nervous system than upon the

While connected with the Yale gymnasium Dr. Seaver made a comparative study of smokers and non-smokers. Of this investigation he says in The Arena, in an article on "The Effects of Nicotine": "For purposes of comparison the men composing a class in Yale were divided into three groups. The first was made up of those who did not use tobacco in any form; the second consisted of those who had used it regularly for at least a year of the college course; the third group included the irregular users. During the period of undergraduate life, which seessentially three and one-half years, the first group grew in weight 10.4 per cent more than the second, and 6.6 per cent more than the third. In height the first group grew 24 per cent more than the second, and II per cent more than the third girth of chest the first group grew 26.7 per cent more than the second, and 22 per cent more than the third; in capacity of lungs the first group gained 77 per cent more than the segond, and 49.5 per cent more than the third." Similar results shown by Dr. E. R. Hitchcock's investigation among the students of Amherst College.

"Cigarette smoking is a most pernicious practice, for it is used at that time of life when the human being is in the processes of development, when the nutritive function should not be interfered with if ideal development is hoped for. Just how much harm as being done to the human race by cigarette smoking is hard to say, but the cigarette is not altogether to blame. They me a child that has been raised normally—fed property—kept away from coffee, tea, chocolate, cocoa, and given no meat until five or six years of age, and then very little—fed good wholesome food—that has slept in a well-aired bedroom—that has been taught to obey—to have some self-discipline—to know domestic authority, and I will show you a child that will not take to cigarettes or any other form of tobacco.

"The tobacco habit is one of the legitimate cravings of a degenerated hunger—it is the normal demand made by a diseased nervous system. This is so true that it ought to be common knowledge. The cigarette per se is not harmful, for a normal child would not put it in its mouth, and, if it did, it

"In an investigation I once made some time ago, the results of which are published in the Child-Study Monthly, I found that during a period of three years there were at least one hundred and twenty-five boys addicted to the use of cigarettes in this school. Among these one hundred and twenty-five were found nearly all of those pupils who were from two to five years older than the averaginge of children for the grade, as well as ninety per cent of those boys hard to discipline and all of those who were habitual truants. Those who were especially known for truancy gavernous reasons for it. Some said they stayed out to smoke because they could not do without cigarettes for even half a day. Three children six years of age when they entered school had arready formed the cigarette habit.

"Not more than ten of these one hundred and twenty-five were able to keep pace with their class. After the careful investigation of the cases of ten boys who were four or five years too old for their grades, I found that each one had begun school at six years of age and had made satisfactory progress up to the time he began smoking, when all progress stopped. I succeeded in getting man, of the smokers to break off the habit entirely, and a few of them, formerly the lowest in their class, became the best.

"When discover that a boy is using tobacco, I first of all have a frank and friendly talk with him, and then I give him some pamphiets, magazine articles, etc., on the injurious effects of cigarette thing to read, a large supply of which literature I keep on hand for just this purpose. I also send for his parents and ity to impress on them the gravity of the situation and to enlist their co-operation. In this way, by nipping the practice in the bud, I have greatly reduced the number of cigarette smokers in this school.

"It is astonishing how many boys, by their own confessions, steal to get money with which to buy cigarettes. The boys tell me that they never buy candy or fruit with the money; that it all goes for cigarettes, and that they would not have stolen money for any other purpose.

"Cigars and pipes are smoked to a considerable extent by boys in the seventh, and especially the eighth grade, to say

educators as to the injurious effects, both physical and mental, when tobacco is used by boys or by young men who have not yet reached maturity. . . . Not less distinctly marked are the effects of tobacco upon the scholarship than upon the physical endurance of students. It is rarely the case that a student who makes any use of tobacco attains to superior scholarship. A complete tabulation of the scholarship and tobacco using habits of young men in the academy at one time discovered that out of 300 young men 22 per cent of the whole number made more or less use of tobacco. Among the 75 per cent having the highest sanding only two were tobacco users, or 3 per cent. Among the second quarter in scholarship there were eleven. or 14 per cent. Among the third quarter fifteen, or 20 per cent, while a mong the lowest quarter there were forty-two, or 56 per cent similar comparison, if made in any other year or for a period of years, would have given very similar ratios. Of all forms of tobacco using, cigarettes are without question the most harmful.

"I am servinced of the destructiveness of the cigarette habit, and believe in its total eradication, if this can be brought about. Cigarette smokers will show the effect of the habit in carelessness and listlessness in their work and general unreliability. I assume, as soon as I learn that a student is a cigarette smoker, that his scholarship will never be above the average, and usually will be below the passing point, and that it will only be a question of time when we will have to drop him from our student community."—Arthur H. Wilde, Principal of the Academy of Northwestern University, Evanston, Illinois.

In his Strength of Being Clean, a Study of the Quest for Unearned Happiness, a little book full of profound wisdom and flashing with epigrams. Prof. David Starr Jordon, a distinguished scientist, president of Leland Stanford Junior University, says: "Happiness must be earned, like other good things, else it cannot be held. . . . No one rides deadhead on the road to happiness. He who tries to do so never reaches his destination. He is left in the dumps. . . .

"The basis of intemperance is the effort to secure through drugs the feeling of happiness when happiness does not exist.

Judges of favenile courts, superintendents of reform schools and of departments of compulsory education come in close contact with large numbers of boys who are cigarette smokers. Below are quoted statements from several well-known men holding such positions:—

"Some years ago, before I inquired into the subject, I shared the widely prevalent notion that this agitation for abolishing the cigarette is more or less of a joke; but since accepting my precent position after seven years' experience in that position realing. I do with from fifteen thousand to sixteen thousand children a year—and by that I do not mean they are all truants, but temporary absentees as well as truants—I have come to the concernion that the cigarette evil is one of the most vital questions before the people to-day and a peril to school children which should be eliminated.

"I have sent-1,015 boys to the Chicago Parental School, a school for habitual truants under fourteen years of age, together with a few class-room incorrigibles. Eighty per cent of this number cigarette smokers. In considering these figures it should be borne in mind that all during the time I am speaking of there was a state law in Illinois, reinforced by municipal ordinances, forbidding the sale or giving away of cigarettes to minors. I have here some statistics to prove beyond doubt that cigarettes create the backward pupil, and from the ranks of the backward pupil we get most of our habitual truants. The boys sent to this institution range in age from seven to fourteen. The average age is eleven and a half. I found many boys who were twelve, thirteen and thirteen and a half years of age who were only in first, second or third grade. Three hundred and one of these boys at the parental school came from the third grade, 217 came from the second 973 1781

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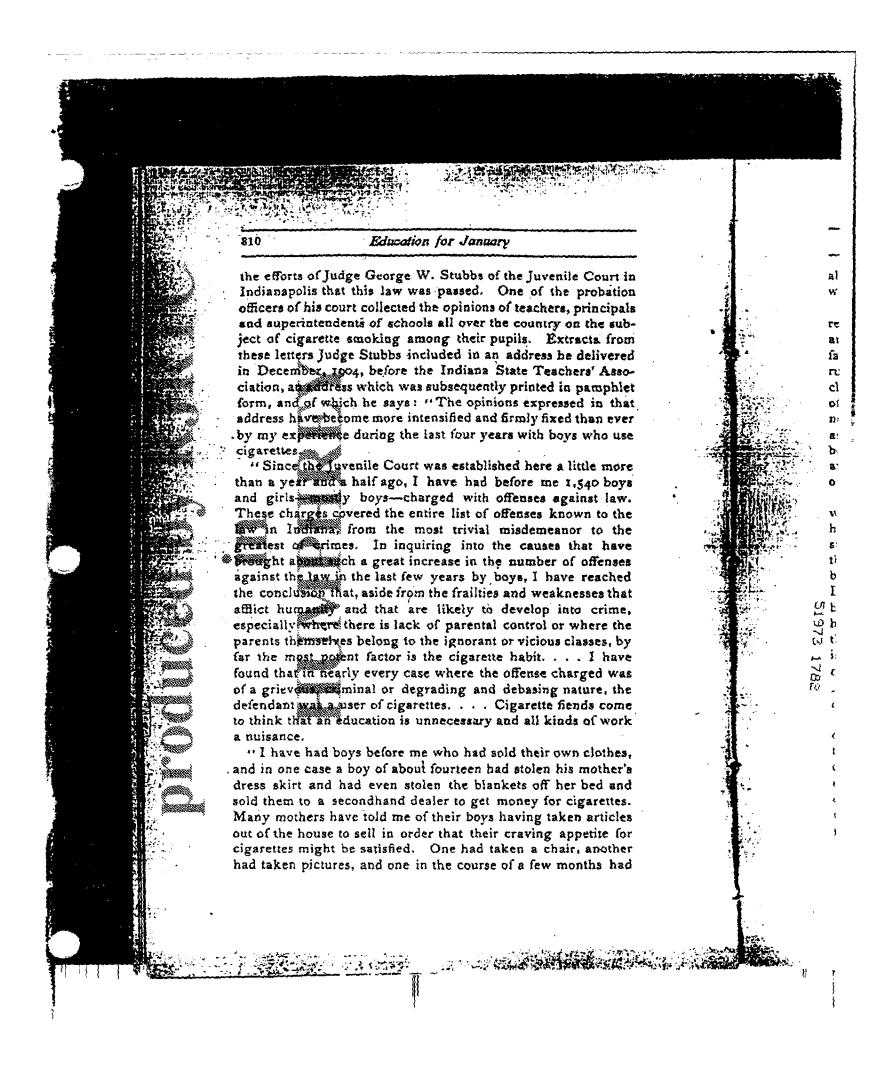
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entitled The Cigarettist. "Cigarette smokers are often active, alert, competent men. They are quick to see an opportunity, ready to take advantage of it, appreciative, sympathetic, kind. But when you see such a one he is in his prime, at his best. His star is at the zenith, not on the horizon or at nadir. Never again will he be as much of a man as he is now. His future lies behind. He is not growing into a better man. He is not in the line of evolution.

"If you want a man who will train on, flee the cigarettist as you would a pestilence. He will surely disappoint you. As a close observer of men and an employer of labor for over twenty-five years, I give you this: Never advance the pay of a cigarette smoker; never promote him. I say do not promote the cigarette smoker, for the time will surely come when you will rue the lay you ever placed him in a position where he can place you a doing those things which he ought not and by leaving undone those things he should have done.

eaving undone those things he should have done.

"Cigarette smoking begins with an effort to be smart....

I do not make my appeal to the cigarettist himself, because it is of no use. He has a fixed belief that he is immune and that all men are mortal but himself. His name is Mr. Knowitall. For the young man who has become so calloused that he smokes cigarettes in the presence of his mother, sister or sweetheart, there is little hope. Hope is only for the youth who is ashamed of his laps. The poison has already tainted the cigarettist's moral nature, and for him the work of dissolution, disintegration and degeneration has begun. He is a defective—a physical, ment moral defective.

"I admit that the moral strabismus of the cigarettist is not always caused primarily by his smoking. I admit that it is a fact that the idle, slipshod, inert, secretive, untruthful, take to the habit very kindly. In short, I admit that because a thing goes with a thing, the thing is not necessarily the cause of the thing. The hoodlum who hangs around the livery stable or country railway station and is prone to the haymow habit is invariably a cigarette smoker, and surely it would not be fair to blame his temperamental disabilities to cigarettes; his trouble lies deeper."

system of a human being—this beautiful structure capable of enjoying all that the universe contains, or of suffering all that the imagination can picture. The use of cigarettes by the young is nothing more or less than a slow but sure form of painful, lingering suicide to the best part of human life. Many of my young acquaintances are to-day in their graves by the use of cigarettes. Would you place sand in a watch? Would you smudge a house full of beautiful pictures?

"We endeaver in every way to prevent cigarette smoking among our students. We have had at times young men in all stages of the habit. While the injurious effects are not so manifest in the early stages, we find that one who has practiced the habit for any considerable time is inclined to be quite nervous, and unable to concentrate his mind, and cannot in consequence the quality of work that we would expect from one of average ability. Some smokers show marked stupidity

and listlessness.

"The average employer is very much disinclined to employ a person who is addicted to the habit; in fact, there are several prominent someons here that will not employ cigarette smokers. There are probably no employers who would not prefer a person free from the habit. Some of them are more particular about if than others; still, I think the general feeling and attitude places the cigarette smoker at a disadvantage in the business world not only on account of the feeling against the habit, but because of the impairment of his faculties that is sure to follow the continued practice. In the present-day business life one cannot hope to meet with the success to which he is justly entitled, unless he has every possible physical and mental advantage in order to meet on equal footing those with whom he must necessarily compete. Certainly the habit can be looked upon in no other way than as an affliction, and one which is sure to detract from the success qualities of its possessor. Were it only possible to stamp it out entirely, it would mean. I think, a change from almost sure failure to a successful career for many young persons."- The Metropolitan Business College, Chicago.

"It is very customary for business men to slip in this inquiry

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rusade's White Knight

By MARCI SHATEMAN

QL. The Bulletin Staff

LUTHER TERRY settled back on his livong room sold with longue implanted firmly in cheek explained why he, of all people, stul has asntrays in the house.

"We figured it was a befter idea than having our guestis who smake tiroptung asnes all over the carpet," said the unliappable for-mer U.S. Suggeon Seneral After 30 years as the midwest and east, there are still traces of his Red Level, Aia., drawi.

That smoken permitted at all in the Terry Delancey place town house says something about the man who lo years ago today became the Cares Public Enemy Number

Despite what he shidingly called "efforts by the media" for a sneak preview, it was Jan. 11, 1964, that the then-surgeon general released his advisory council's bombshell port on smoking and health. Earlier studies had linked lung cancer and smoking too, but

this one had the staying power.

It became the bible of the tab moking ment, a cause which still he a zealous ωŽ.

FORMER U.S. Surgeon General Dr. Luther Terry - "I lelt I was taking on task which involved a serious imbact on one of our great industries . . .

Prote by taketers C.

Dr. Terry recalled his state of mind in mid-1961 when President John F. Kennedy, who had appointed him, OK'd his plan for the advisory council.

"I felt I was taking on a task which in-



bived a serious impact on one of our great industries and would have an impact on the ermers, on our tax returns," he said.

The Opposition

He was surprised that there wasn't more apposition.

We made sure there was no political in-'erference." he said. "Oh, some members of Congress (from the tobacco states) had vio-'ent disagreements with me, but they didn't wertly attempt to costruct the study.

"The tobacco industry had agreed in adreacce to give us information and they did.

"I think they felt that if they refused, it build be so overtly obstructive it would be a hard public relations position to be in, in my #dgment."

What they did to combat the report's findags was to claim that the facts were not all a. Dr. Terry said.

But they were, Dr. Terry claims, at least when it came to lung cancer, chronic bronchitis and emphysema.

"There was definitely a statistical tionship between smoking and co beart disease, but we came up in that," he said.

Personally Satisfy'

For Dr. Terry istying to seings born Nov COM. repon. public . Congress information What my.

y-Champion and Dragon Slayer

Continued from Page 23

Impact his report had when, as he says, it contained no surprises.

His predecessor, Dr. Lerov Burney, had published an article linking smoking and lime cancer, but it didn't move the masses. There also had been several substantial medical studies which - excent for the medical community were largely ignored.

The White Knight

So while he was not the taket to warn America's smokers. he was the first to catch their attention. Does that make him the white knight of the antismoking crusade?

"Maybe it's a little that of enulism," he said, "but the facis would bear it out.

"Un to 1964 there was a year by year increase in smoking. That was the first year we saw any downward break in the curve.

" "Today, in fact, we not only have stopped the increase but have reverted to the pattern of 15 years ago."

He is one of the statistics." After Mayette school own fine Ings stared bith inte espite up Cigarets for a pipe and then finally quitting altogether.

"It was a matter of, as Li'l Abner says, 'As any fool can plainly see," " he said. "The evidence had been building up for so long."

In the last 10 years Dr. Terry, who left his surgeon general's post in 1965 to be come the University of Pennsylvania's vice president for niedical attairs the's now on the medical faculty), has had the pleasure of seeing positive effects of his work.

Labeling Act

"Of course the biggest thing was the cigaret labeling aut of 1965," he said, "It was our first hig break with Congress in doing something about Ensoking"

"It was a difficult thing. But a lot of people in Congress felt Rood about it and moved fast. Really, I think that was the break in the dam."

There have been other gains

NON-SMOKERS HAVE RIGHTS **T00**

GASP (Group Against Smoking Pollution) was started in College Park, Maryland three years ago and now has between If and 15 chapters nationwide.

Cigaret advertising on radio and TV. The stronger health warning messages on cigaret Dackages in 1970.

"My biggest disappointment since then too. The ban on is our inability to be suf-

ficiently convincing to the youth." he said. "There's been a significant drop in adult snokme, but male youngsters between 12 and 18 show a slight but significant

And we had hoped and expected that when clearet advertisine was drooped that drop non-smoking measures. But they have, almost totally, I thought they'd kel more responsible, but they haven't. Oh, you'll uce a live-second bline But they tell us they have other public service anmouncements and we'll just wave to wait in line."

The serbacks haven't disgouraged him, though,

Priority List

At 65, Luther Terry still has his priority list.

"I'd like to see a louder. clearer voice carry out programs for the benefit of the non-smaker.

"The abuses of advertising have continued in the printed media and I particularly resent the use of sporting events. I'd really like to see Congress pass a law banning all cigaret advertising, but there is an issue of constitutionality.

"I would like to see the I probably would."

health watning in a more prominent position on clearet packages, and have the message say, 'Cigarette smoking radio and television would not is dangerous to your health and may be remonsable for . cancer of the luncs and other organs, emphysema and heart disease."

> Finally, he is hoping for a more effective medium for the message to young people.

> The man known in his Washington days as the "unstuffed shirt" had other cancerns when he was surgeon general. But the ill effection of smoking staved with him. as the findings of his report have stayed with many Americans.

Along with his present consulting work with the Anierican Cancel Society in New York and with an academic firm, University Associalesin Washington - to which pe commutes - he's enniested in the anti-smoking campaign.

As an ex-smoker who will never underestimate how had It is to quit. "Frankly, I wrald really like to smoke," he siki. "and if it didn't hort my beath

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NICOTINE ADDICTION

a report of the Surgeon General

1988



U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES
Public Health Service
Centers for Disease Control
Center for Health Promotion and Education
Office on Smoking and Health
Rockville, Maryland 20857

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throughout the, day than in nicotine concentrations. As expected. there is a gradual increase in cotinine levels during the day, peaking at the end of smoking and persisting in high concentrations produced overnight.

Intake of Nicotine

Cigarette Smoking

Nicotine intake from single cigarettes has been measured by spiking cigarettes with "C-labeled nicotine (Armitage et al. 1975). That study of eight subjects, each smoking a single filter-tipped cigarette, indicated an intake range of 0.36 to 2.62 mg. Intake was higher in smokers than in nonsmokers. Intake of nigotime from smoking a single cigarette or with daily cigarette smoking has been estimated by methods similar to those used in drug binavailability studies (Benowitz and Jacob 1984; Feyerabend, Ings, Russell 1985). Metabolic clearance of nicotine was determined after i.v. injection. Metabolic clearance data were then used in conjunction with blood and urinary concentrations of nicotine measured during a period of smoking to determine the intake of nicotine. In five subjects, average intake of nicotine per cigarette was 1.06 mg (range, 0.58 to 1.49 mg) (Feyerabend, Ings, Russell 1985). In 22 cigarette smokers, 13 men and 9 women who smoked an average of 36 cigarettes/day (range 20 to 62), the average daily intake was 37.6 mg, with a range from 10.5 to 78.6 mg (Benowitz and Jacob 1984). Nicotine intake per cigarette averaged 1.0 mg (range 0.37 to 1.56 mg). Intake per cigarette did not correlate with yields obtained by smoking machine using standard Federal Trade Commission methods. This is because smoking machines smoke cigarettes in a uniform way, using a fixed puff volume (35 mL), flow rate (over 2 sec), and interval (every minute). Smokers smoke cigarettes differently, changing their puffing behavior to obtain the desired amount of tobacco smoke and nicotine.

Elimination Rate as a Determinant of Nicotine Intake by Cigarette Smoking

There is considerable evidence that smokers adjust their smoking behavior to try to regulate or maintain a particular level of nicotine in the body (Gritz Took 9, gest 2007). For example, when the anokera is a recrease and higgs that is availe comes ad such the nte : et al. ъ. Ц. 8871 E7912

198c.. Techniques for measuring daily intake of nicotine (Benowitz and Jacob 1984) have been applied to study the influence of elimination on nicotine intake. The rate of renal elimination of nicotine was http://legacy.library.ucsf.edu/tid/zrq07au0/pdfe: https://www.industrydo

bicarbonate to acidify or alkalinize the urine, respectively (Benowitz ' and Jacob 1985). Compared with daily excretion during placebo treatment (3.9 mg microtine/day), acid loading increased (to 12 mg/day and alkaline loading decreased (to 0.9 mg/day) daily excretion of nighting the total tatake of nicotine averaged 38 mig/day. Average blood nicotine concentrations were similar in placebo and bicarbonate treatment conditions but were 15 percent lower during ammonium chloride treatment. Daily intake of nicotine was 18 percent higher during acid loading, indicating compensation for increased urinary loss. The compensatory increase in nicotine consumption was only partial, replacing about half of the excess urinary nicotine less. Bicarbonate treatment had no effect on meetine consumption consistent with the small magnitude of effect on expresions of nicosine in comparison to total daily intake.

These results seem compatible with the suggestion of Schachter (1978) that emotional stress, which results in more acidic urine, might accelerate nicotine elimination from the body and thereby increase cigarette smoking. But caution must be exercised in applying these findings to usual smoking situations. These studies were performed under conditions of extreme urinary acidification or alkalinization, so that the changes in renal clearance would be maximized. Even with extreme differences in urinary pH, differences in overall nicotine elimination rate and smoking behavior were modest. This is because renal excretion is a minor pathway for elimination of nicotine; most is metabolized. Smaller changes in urinary pH, such as occur spontaneously throughout the day or that might be related to stressful events, would not be expected to substantially influence nicotine elimination or smoking behavior.

Biochemical Markers of Nicotine Intake

Absorption of nicotine from tobacco smoke provides a means of verification and quantitation of tobacco consumption. The general strategy is to measure concentrations of nicotine, its metabolites (such as cotinine), or other chemicals associated with tobacco smoke in biological fluids such as blood, urine, or saliva. Different measures vary in sensitivity, specificity, and difficulty of analysis. Different investigators have used blood or urinary nicotine concentrations, blood or salivary or urinary cotinine concentrations, expired carbon ser exide or carboxyhemoglobin concentrations, or plasma or salivary thiocyanate (a metabolite of hydrogor cyanide, a vapor phase constituent) concentrations as measures of tobacco smoke consumption.

Relationships among daily intake of nicotine, daily exposure to nicotine (that is, blood concentrations of nicotine integrated over 24 hr), various parameters of cigarette consumption, and different

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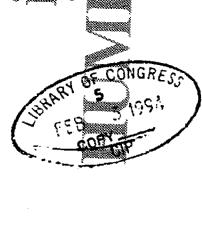
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Psychopharmacology of Nicotine

JACK E. HENNINGFIELD, CAROLINE COHEN, and WALLAGE B. PICKWORTH

Nicotine as delivered by use of topacco products is highly addictive (see also Chapter 1). Regular ingestion of the alkaloid often produces a drag tapendence in exactly the same sense that regular ingestion of heroin, cocaine, and alcohol can produce dependence. While the cultural context of drug use may influence the prevalence of dependence on a particular drug and the chances that a casual user will become addicted, pharmacologically, nicotine is as addictive as heroin and cocaine, although not more so (Henningfield, Cohen, Stade 1991). This chapter discusses the ast chopharmacology of nicotine in the context of drug dependence in general.

The focus of this chapter is on the pharmacologic actions of nicotine that are important in the establishment and maintenance of nicotine dependence. Other chapters address the equally important social and environmental determinants of tobacco use, such as social pressures to use tobacco (Chapter 4) and the availability and financial commentation of tobacco products (Chapter 3). Chapter 10 provides clinical guidelines for assessing the degree of nicotine dependence in an individual patient.

Nicotine produces a broad and diverse range of effects of which only some are clearly relevant to the behavior of smoking. For example, nicotine, like morphine, can elicit vomiting and reduce skeletal muscle tone; nicotine, like cocaine, can increase heart rate and produce vasoconstriction; nicotine, like alcohol and barbiturates, can induce marked intoxication, especially during early use episodes. These effects of nico-

tine do not, however, appear to be prominent influences on tobacco use. How does nicotine affect mood and behavior? What physiologic actions of nicotine are important in determining why people smoke? Among the effects of nicotine that smokers find desirable, which might be considered specific effects of nicotine administration and which are more appropriately considered suppression of undesirable nicotine withdrawal effects? Answers to these questions are not only important for better understanding of the reasons people smoke and the difficulties many face in their attempts to quit, but they also can help patients and health care providers understand which factors they can manipulate in the management of addiction to nicotine.

GENERAL PHARMACOLOGY OF NICOTINE

An, overview of the chemistry, pharmacodynamic, and pharmacokinetic properties of nicotine is included because these properties influence its psychopharmacologic characteristics. The material is supplemented in this book in Chapters 1 and 10. the 1988 Surgeon General's Report (USDHHS 1988), and Gilman and associates (1985). The interested reader may consult these sources for original references.

As shown in Figure 2-1, nicotine is composed of a pyridine and a pyriolidine ring. It is one of the few natural alkaloids that exist in the liquid state. The pure alkaloid is a clear, volatile, alkaline liquid that turns



Fig. 2-1

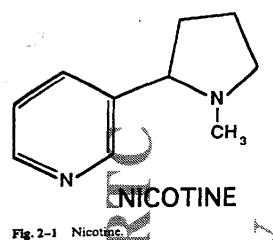
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brown on exposure to air. It has the smell of tobacco. Nicotine may exist in two different stereoisomers. Pharmacologically active nicotine is the only form found naturally, although cigarette smoke contains about 10% d-nicotine apparently derived from racemi-

ing amounts of nicotine; the tobacco in cigount is similar across all brands of cirarettes whether they are "low yield" or not. However, the amount of nicotine delivered

Although nicoting is the major alkaloid in iobacco accounting for about 1.5% of the dry weight of tobacco, other alkaloids are present in smaller quantities. These successes make up about 8-12% of the total alkaloid content and may have pharmacologic impriance. Among these alkaloids are: nor-

ecule is nonionized, while in acidic media, it is ionized. Most cigarette smoke (from fluecured tobacco and "American blend" mixtures) is acidic and the acidity increases as the cigarette is smoked. Consequently, there is little buccal absorption of nicotine after cigarette smoking. Smoking from aircured tobacco (used in cigars, pipes, and some European cigarettes) has an alkaline pH, and considerable nicotine absorption occurs in the mouth. After cigarette smoking, nicotine is rapidly absorbed from the lung where the pH rises to 7.4 and the surface area is large. Smokers absorb up to 90% of the nicotine in the mainstream cigarette smoke.

Chewing tobacco, snuff, and nicotine polacrilex gum have an alkaline pH that facilitates the buccal absorption of nicotine. Nicotine base is also readily absorbed through the intact skin. Such absorption accounts for cases of toxicity in tobacco field workers and from nicotine-containing pesticides. Transadjunct to smoking cessation (Chapter 12).

about 70% of liver blood flow, indicating that about 70% of nicotine is cleared from the blood during each pass through the liver.

After an intravenous dose of nicotine, there is rapid distribution to body tissue especially the brain. After tissue equilibrium, the half-life of nicotine in the blood is about 120 minutes. The half-life is useful in describing the blood nicotine levels observed in smokers were a 24-hour period. Upon arising, blood nicotine averages 5 ng/ml. These levels with the day's smoking to a plateau of 30-40 ng/ml over 3-4 half-lives (6-8 hr). The blood nicotine levels then gradually decline after the subject discontinues smoking at bedtime. Peaks and troughs follow the smoking of each cigarette; but as the day progresses the overall level increases and the influence of each cigarette diminishes. Thus nicotine is not a drug to which the smoker is intermittently exposed. Rather, considerable accumulation occurs over the day and appreciable level nicotine persist in the plasma.

The metabolism and elimination of cotinine is of interest because of blood and urine levels of cotinine are used as qualitative indices of nicotine ingestion. Cotinine blood levels average about 250 ng/ml. After stopping smoking, the levels decline with a half-life of 18-20 hours. The long half-life is consistent with the observation that cotinine levels show lattle fluctuation with each cigarette over the day.

Pharmacologic Properties

Nicotine is a powerful pharmacologic agent that changes cardiovascular, neural, endocrine, and skeletal muscle functions. Its effects are dependent on dose, rate of administration, tolerance level of the person, and rate of elimination. While the focus of this chapter is on the effects of nicotine responsible for its abuse liability, it is important to recognize that other actions of nicotine are present, and the person may associate these with the reinforcing effects of tobacco.

Nicotine readily crosses biological membranes and acts upon specific receptors in the brain and the periphery. Activities at receptors in the brain are associated with changes in electrical cortical activity as well as with the generation of evoked potentials and motor potentials.

Nicotine affects nearly all components of the endocrine and neuroendocrine systems. For example, it stimulates the release of anterior and posterior pituitary hormones including: prolactin, adrenocorticotropic hormone (ACTH), B-endorphin, B-lipotropin, growth hormone, vasopressin, and neurophysin.

Nicotine has direct and indirect effects on several neurotransmitters. At peripheral autonomic ganglia, nicotine is a cholinergic agonist at low doses and an antagonist at high doses. Besides its direct action at ganglionic cholinergic receptors, nicotine releases acetylcholine (ACh) from the myenteric plexus. Release of ACh from neurons in the cerebral cortex is thought to be responsible for the electroencephalogram (EEG) activation seen after nicotine administration.

Nicotine releases epinephrine and norepinephrine from the adrenal gland and from peripheral nervous tissue. The pressor response to nicotine in the cat is due in part to epinephrine release from the adrenals. The increase in heart rate after nicotine in humans is also due to adrenal mechanisms. Nicotine also releases norepinephrine and dopamine from neurons in the brain. These effects are thought to be involved in its neuroendocrine activation.

Receptor Interactions

Nicotine binds to specific receptors on neurons in the central nervous system (CNS) and to receptors in the periphery located on cells in autonomic ganglia and on skeletal muscle cells. The binding sites on the autonomic ganglia and adrenal medulla (C6 or ganglionic type) are ordinarily activated by ACh. Nicotine binding at these sites is blocked by hexamethonium. Binding sites on skeletal muscle (C10), are located at the muscle end plate. ACh ordinarily activates these sites, which are blocked by decamethonium and alpha-bungarotoxin. Generally, higher doses of nicotine are required to stimulate C10 receptors than C6 receptors. Doses of nicotine in ordinary smoking do not affect the muscle end plate. In the brain, C6-type recept tion c physic neuro Many versec antag tions.

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receptors have been identified, and the acn of nicotine at these sites alters electrophysiologic responses, local metabolism, neurotransmitter release, and behavior. Many of these actions are prevented or reversed by mecamylamine, a C6 nicotine antagonist with central and peripheral actions.

Cardiovascular Effects

Among the prominent and easily measured effects of nicotine are increases in heart rate and bland pressure, and decreased skin temperature due to vasoconstriction in the extremities. These actions are due to stimulation of the sympathetic autonomic ganglia, release of catecholamine from the adrenal medula, and discharge of catecholamines from ampathetic nerve andings. Nicotine also stimulates chemoreceptors in

could vary widely both within and across drugs so that this feature was not useful in attempting to differentiate drugs according to whether they were addictive or habituating. Another landmark came in 1980, when the American Psychiatric Association classified drug addictions separately from personality disorders (APA 1980). For several centuries references had been made to compulsive or addictive tobacco use, but it was not until the 1970s that biomedical research and epidemiologic observations left little doubt that nicotine was a highly addicting drug (Russell 1976). In the 1980s, the National Institute on Drug Abuse, and then the U.S. Surgeon General, came to similar conclusions (USDHHS 1984, 1987; see Kanigel 1988; USDHHS 1988).

We now understand that drug dependence, or addiction, is a compulsive behavior in which the role of a specific psychoacconcept is the notion that dependence-proof specific examples of drug addiction in humans. That is, the abuse or addiction liabilof chemicals can be predicted from the results of various human and animal test pronicotine as a dependence-producing drug and tobacco use as an instance of drug dependence from both epistemological and nicotine dependence has evolved with those of other drug dependencies over the past sevconceptual threads that have remained com-

of the behavior of individuals, for example, "addicted to others for stipendes" (in the year 1560), "addicted to virginitie" (in 1590), "addicted to wine or strong drinke" (in 1612), and "addicted to useful reading" (in 1771) (Murray et al. 1933). The referent for the term addiction was the behavior of the individual, and the connotation was that the behavior was very strong, excessive, irrational of compulsive. The term drug addiction came to describe compulsive self-administration of substances such as alcohol, opiales, marijuana, and cocaine which directly after behavior and which produce effects that promote readministration. In the 1940s and early 1950s, the term drug addiction assumed additional member. It came to carry the implication that, following a period of continuous use, deprivation of an addictive substance would lead to a withdrawal syndrome (WHO 1952). This refinement emerged largely from studies documenting the withdrawal synctrome countring when morphine use was suddenly discontinued. The notion that a chronic state of intoxication produced was also frequently referred to and appears to have unsen from observations of chronic high dose alcohol use because this characteristic did not apply to the tolerant morphine user. More recent clinical and research formulations of drug addiction do not place such central emphasis on withdrawal syndromes and intoxication (WHO 1964, APA 1980; 1987; USDHHS 1988) The common thread rough the twentieth century has been was same as that which started centuries earlier, namely, the compulsiveppearing behavior of drug self-administration.

Laboratory evaluations of abuse liability identify drugs that produce the effects which appeal to addicted users with a high degree of specificity (Jasinski and Henningfield 1989). Thus, the abuse liability can be estimated even before addictive patterns of use are observed. The ability to specify and measure such features of drugs, and to make accurate predictions, has not only been of enormous value in protecting public health, it has also validated many of the theoretical underpinnings of the testing procedures.

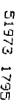
Definitions

Drug dependence is synonymous with drug addiction; however, the term dependence is preferred by the WHO and other organizations that are concerned with public health (WHO 1982). The term drug dependence will be used throughout this chapter since it is also somewhat less encumbered by overly general use (e.g., the so-called addictions to love, sugar, and video games), and it has fewer antisocial connotations than the term drug addiction. Drug dependence may be defined as a substance-seeking behavior involving a psychoactive drug that acts in the CNS; tolerance and physiologic withdrawal may or may not be present (WHO 1982; Jaffe 1985). Drug dependencies are not distinct from habitual or compulsive behaviors but, rather, they form a subset of habitual or compulsive behaviors in which the role of a specific, exogenously administered, centrally active chemical is critical. The term drug abuse is often used synonymously with drug dependence; however, at times this term is used to designate a broad range of inappropriate or nontherapeutic drug use in which the actual level of dependence might be negligible.

As is increasingly well understood, tobacco use is often a form of drug dependence in which nicotine is the dependence-producing drug. In fact, tobacco use and nicotine meet criteria set forth not only by the 1964 and subsequent definitions of drug dependence by the WHO, but data available today also show that nicotine would have met the 1950s definition of the WHO for an "addicting" drug (USDHHS 1988).

ABUSE LIABILITY AND PHYSICAL DEPENDENCE POTENTIAL

What distinguishes tobacco use from compulsive gambling, eating potato chips, or compulsive sexual behavior? In part it is that tobacco use involves the self-administration of a specific psychoactive substance that shares critical features in common with prototypic dependence-producing substances such as morphine, cocaine, and alcohol. In fact, the role of nicotine in the use of tobacco



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PSYCHOPHARMACOLOGY OF NICOTINE

similar to the roles of morphine, cocaine, and ethanol in the use of opium, coca, and alcohol-based products, respectively. This conclusion stands whether these substances are termed addicting, habituating, or dependence-producing. Furthermore, experimental laboratory studies have shown that nicotine meets objective criteria as a drug with the pharmacologic actions that frequently lead to a state of dependence in those exposed. The distinguishing characteristics of dependence-producing drugs are listed in Table 2-1 (USD HHS 1988). The following is a brief review of these criteria and the data obtained in studies of nicotine.

The abuse liability and physical dependence potential of drugs may be a received in laboratory studies by tests designed to quantitate these factors (Jasinski, Johnson Flenningfield 1984; Brady and Lukes 1984). Abuse liability studies measure the effects of a drug that will result in its continued selfadministration, even in the face of harm. Physical dependence potential studies meatre physiologic and behavioral sequelae to repeated drug administration: specifically, physical dependence (evidenced by the occurrence of an abstinence-induced withdrawal syndrome) and tolerance (evidenced by decreased responsivity when doses are repeatedly given).

Drug Delivery to the CNS

Typical methods of use of many ana, opium, coca lean and alcoholic beverages all result in the delivery of a specific exogenous drug to the CNS. Similarly, all common forms of tobacco use result in the delivery of nicotine to the plasma, from which it is rapidly carried to the CNS. This observation is not incompatible with the finding that certain effects of nicotine are mediated by the peripheral nervous system, as well as by modulation of endocrine function. Morecertain subjective effects of substances buse may mimic those occurring during nous activities (e.g., jogging and sex) or issimption of food: The intact nervous has a large but limited variety of final minimum pathways that must be followed to

one the earlier quantitative data on

Table 2-1 Criteria for Drug Dependence

Primary criteria
Highly controlled or compulsive use
Psychoactive effects
Drug-reinforced behavior

Additional criteria
Addictive behavior often involves:
stereotypic patterns of use
use despite harmful effects
relapse following abstinence
recurrent drug cravings
Dependence-producing drugs often produce:
tolerance
physical dependence
pleasant (euphoriant) effects

Source: USDHHS 1988.

nicotine distribution were those collected by Schmiterlow and colleagues (1967), who used radiotracer techniques to characterize the distribution of nicotine accumulation throughout the body, including the CNS. Nicotine was found to be quickly distributed to all highly blood-perfused tissues, including the brain. More recently, London and co-workers (London, Waller, Wamsley 1985; London, Connolly, Szikszay et al. 1985) have shown that nicotine binds to specific receptors in the rat brain with a distribution that closely parallels the patterns of metabolic stimulation in response to nicotine. They found that the density of nicotine binding sites was highest in the interpeduncular nucleus, the medial habenula, and the superior colliculus. They have used the autoradiographic 2-deoxy-D-[1-14C] glucose (or 2-DG) method to evaluate the possible changes in local cerebral glucose utilization as a function of the administration of a variety of dependence-producing drugs. Subcutaneous administration of nicotine to rats resulted in specific regional increases in glucose utilization. The greatest increases occurred in the habenulointerpeduncular system and portions of the thalamus. Increases were related to nicotine dose and were blocked by the centrally and peripherally acting nicotinic antagonist mecamylamine. but not by the peripherally acting antagonist hexamethonium.

Abuse Liability of Nicotine

Heroin, cocaine, ethanol, and other dependence-producing drugs produce certain ef-

fects that distinguish them from drugs that are not generally abused. When given to persons with histories of drug abuse under double-blind, placebo-controlled conditions. such drugs produce characteristic responses on standard tests (Jasinski, Johnson. Henningfield 1984). (1) Subjects can discriminate drug from placebo and the reliability of the discrimination is related to the dose of the drug. If these effects are centrally mediated, then the drug is defined as psychoactive (2) Scores on the empirically derived morphine-benzedrine-group (MBG) scale of the Addiction Research Center Inventory (ARCI) and scores on drug liking scales are elevated in a dose-related manner. If these effects are also centrally mediated, then they define the drug as a euphoriani (3) Presentation of the drug can condition and control behavior in such a way that the person will seek the drug. Demonstration of such potential of a drug to control subsequent behavior in both human subjects and animals shows that the biologic activity of the drug apart from the various aspects of the vehicle (e.g., cigarettes) is critical. the daily is then said to serve as a positive winforcer

When nicotine was tested in a series of such studies, the results showed that nicotine, in doses comparable to those delivered by cigarette smoking, is an abusable drug. That is, as will be described later, nicotine meets the criteria of being psychoactive, producing emphoriant effects, and serving as a reinforcer.

Nicotine as a Psychoactive Drug

By the 20s, Lewin and others had concluded that nicotine produced effects on "mental function" and mood that were similar in some respects to those of other psychoactive drugs (Henningfield and Goldberg 1988). By the 1970s it had been definitively established that such effects were due to nicotine's actions in the CNS (see review in USDHHS 1988).

To permit a quantitative comparison of nicotine to other dependence-producing drugs, researchers at the Addiction Research Center (ARC) conducted a series of studies which used standardized procedures for evaluating dependence potential (Henning-

field. Miyasato, Jasinski 1983, 1985). Volunteer subjects with histories of drug abuse were tested because they could identify drugs with a potential for abuse and could compare the effects to those of other abused drugs. Nicotine in a wide range of doses was given both intravenously and in the form of tobacco smoke. By both routes of administration, nicotine produced a similar profile of effects across a variety of measures, thereby confirming the importance of nicotine itself in these effects of tobacco.

In brief, nicotine was psychoactive as evidenced by its reliable discrimination from placebo. Its self-reported effects peaked within I minute after administration (by either route) and dissipated within a few minutes. Peak response and duration of response were directly related to the dose. In other subjects pretreated with mecamylamine, the effects of nicotine were attenuated in a dose-related fashion.

Nicotine as a Euphoriant and Discriminative Stimulus

In the ARC study, nicotine was shown to be a potent euphoriant causing dose-related increases on scores of the drug liking scale (Henningfield, Miyasato, Jasinski 1985). Interestingly, intravenous nicotine was found to be approximately 5 to 10 times more potent than intravenous cocaine in producing elevated liking scale scores (Fischman et al. 1976). Another measure of euphoria is the MBG scale which provides an empirically derived means of estimating addictive opioid and stimulant-like effects of a compound. On this measure, as well, nicotine elevated scores relative to placebo (Henningfield, Miyasato, Jasinski 1985).

Analogous studies have been conducted using animals as research subjects. Animal studies are critical since they permit an objective differentiation of the effects of the drug from any possible influence or bias carried by human research subjects. In the discrimination or psychoactivity tests, the animals were given either the test drug or placebo. They were trained to press one lever when given placebo and to press another lever when given the test drug. When tested in this fashion, animals were found to

readily learn to discriminate nicotine from alacebo as evidenced by their nicotine-spe-

ic lever pressing (Rosecrans and Meltzer 1981). Furthermore, the degree of discrimination was dose-related and was blocked by pretreatment of the animals with centrally (but not peripherally) acting nicotinic antagonists. In the animal analog of euphoriant tests, animals are trained to press one lever when given the standard drug (e.g., amphetamine) and another lever when given another drug (e.g., sedative) or placebo. When tested in this manner, nicotine has been found to be unique but more similar to stimulants than to sedatives (Henningfield and Goldberg 1984) These findings may be considered systematic extensions of research conducted by Johnston (1942) and Jones and his co-workers Jones, Farrell, Herning 1978).

Nicotine as à Positive Reinforcer

To determine whether or not nicotine can control behavior, animals and human subjects can be given the opportunity to take invarious injections. Nearly all drains that e widely abused by humans are voluntarily taken by animals Griffiths, Bigelow, Henningfield 1980, ruling out the possibility that specific personality factors and other unique human traits are necessary for these drugs to control behavior. The drug-taking behavior must be voluntary in that the animal or person is not required or specifically induced to take the drug following initial training and exposure to it.

In one such saidy, human subjects were tested during and resulted in either a nicotine or a placebo injection (Henningfield, Miyasato, Jasinski 1983). A variety of safeguards ensured the saidty of the subjects. The subjects self-administered the intravenously available nicotine but discontinued lever pressing when saline was substituted for the nicotine. Similarly, when subjects were given access to both nicotine and placebo at the same time (by pressing alternate levers) they chose nicotine, confirming that nicotine was functioning as a positive reinforcer Henningfield and Goldberg 1983). When

Jose was increased, fewer injections were ob-

tained: however, the subjects obtained more nicotine per session.

Tolerance to Nicotine

Studies of tolerance to nicotine have been conducted since near the turn of the twentieth century when Langley and Dixon and others demonstrated that repeated administration of nicotine led to diminished responsiveness which could be partially overcome by increasing the dose of nicotine (see review, Swedberg, Henningfield, Goldberg 1990). Human subjects given nicotine at 10 minute intervals reported rapidly decreased positive subjective effects; by the sixth or seventh injection, subjects could not distinguish nicotine from placebo (Henningfield 1984a; see also Jones et al. 1978).

The development of tolerance is likely an important factor early in the natural history of nicotine dependence. A survey of patterns of tobacco use over time showed that the self-reported number of cigarettes or the amount of smokeless tobacco (SLT) used steadily increased from the first day of tobacco use to the fourth (SLT) or eighth (cigarettes) year (Henningfield, cited in USDHHS 1987). For most of the more than 800 smokers and former smokers surveyed, it took at least several years before a stable level of consumption, usually from one to two packs per day, was reached. Use of smokeless tobacco appeared to level off more rapidly, but this, too, followed a period of gradually escalating use.

Physical Dependence on Nicotine: Deprivation and Substitution for Tobacco

Physical dependence is measured by the demonstration of an abstinence syndrome characterized by an orderly pattern of signs and symptoms when regular drug administration is discontinued. These signs and symptoms are often opposite in direction from effects produced by acute drug administration (Jaffe 1985). For instance, in the case of opiate withdrawal, pupillary constriction is replaced with pupillary dilation, constipation is replaced with diarrhea, and so forth. With nicotine (as with opiates and sedatives), a prominent characteristic is an

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increased tendency to want to use the drug, sometimes reported as "craving."

In a series of studies at the ARC, the to-Dacco abstinence syndrome was experimentally analyzed (Henningfield and Nemeth-Coslett 1988; Snyder, Davis, Henningfield 1989; Pickworth, Herning, Henningfield 1989). Heavy cigarette smokers volunteered for a study in which a baseline period of regular cigarefte smoking was followed by a 10-day period of tobacco abstinence, then voluntary reexposure to regular cigarette smoking. In separate phase of the study, subjects volunteered for three alternating cycles of 4 days of regular cigarette smoking interspersed with 3 days of abstinence. During each 3-day abstinence period, varying doses of nicotine polarrilex were administered every hour.

During the nigotine deprivation phase of the ARC studies, ratings of desire to smoke increased to near peak levels within the first 24 hours of deprivation. After this, ratings of desire to smoke began to decline to the remainder of the deprivation period. Changes in heart rate showed a similar time course with decreases averaging about 5 bpm. How-

er, reversal in the trend of falling heart ate uid not begin that the 6th day. Performance deficits peaked thring the first few days of nicotine deprivation and only partially recovered by the folio day.

In the nicoune replacement phase of the ARC studies, the rate of gum administration and the rate of chewing were carefully controlled. From 8:00 A.M. until 7:00 per subjects used one piece of gum per hour for 15 minutes at a chew rate of one chew every 3 seconds. With regard to overall venous plasma nicotine levels, 12 pieces of 4 mg of gum chewed under controlled conditions provided adequate replacement for the smoked tobacco. Hourly chewing of 2 mg of gum did not maintain plasma nicotine levels at the cigarette-smoking level.

As in the first phase of the study, baseline heart rate for the subjects was about 70 bpm; during the nonsmoking days when placebo gum was administered, heart rate decreased about 5 bpm to levels approximating those seen during days two and three of the 10-day

privation phase of the study. Administraion of 2 mg gum attenuated the decrease and 4 mg of nicotine completely abolished this withdrawal effect. Cognitive performance deficits occurred during the nicotine gum placebo condition, but were blocked by nicotine gum administration: the blockade of these withdrawal effects was most reliable in the 4 mg gum condition.

A number of important electrophysiologic effects were also observed. Beginning as early as 29 hours after tobacco deprivation. changes in the resting EEG were evident. Pickworth and associates (1989) found that theta power increased and alpha frequency decreased at the onset of tobacco deprivation. These results confirm the observations made in other EEG studies on the effects of nicotine deprivation (Ulett and Itil 1969; Knott and Venables 1977; Herning, Jones, Bachman 1983). The EEG effects persisted for up to 7 days in this study, and, with the resumption of smoking, they rapidly (within 4 hr) reverted to predeprivation levels. Similar EEG findings occurred in the placebo gum phase of the replacement experiment. These effects were prevented by the hourly chewing of the 2 and 4 mg nicotine polacrilex. These results indicate that slowing of alpha frequency, an indication of decreased CNS arousal, paralleled the discontinuation of tobacco and could be prevented with the administration of nicotine gum. In recent studies, changes in the EEG were evident on a puff to puff analysis, suggesting the changes in CNS arousal may be under very fine, discrete control of the smoker (Knott 1988).

Desire to Smoke

As described earlier, abstinence from to-bacco regularly produces an orderly syndrome that is largely attenuated by replacement of the usual intake of nicotine in the form of the gum. There is one important exception, however; that is, there was no significant difference in ratings of desire to smoke during placebo, 2 or 4 mg gum administration. This suggests that whereas patients can expect nicotine gum to help them to be more comfortable by suppressing many features of nicotine withdrawal, this preparation will not as readily reduce thoughts, urges, desires, or cravings for cigarettes.

can alleviate various signs and symptoms of withdrawal without appreciably altering desire to smoke, are consistent with the notion that the desire to smoke is more closely related to learning factors and to environmental stimuli (Henningfield and Brown 1987; Henningfield 1986). An analogous finding is that nicotine replacement in the form of intravenous injections or nicotine gum can decrease the senavior of cigarette smoking and intake of carbon monoxide, whereas ratings of desire to smoke remain relatively constant.

Additional clinical features of the nicotine withdrawal syndrome are described in Chapters 10 and 12, and nicotine replacement therapy is discussed in Chapter 12.

COMPARISON OF NICOTINE DEPENDENCE WITH OTHER DRUG DEPENDENCIES

Drug dependence is characterized by features that can be distinguished on the basis of the specific pharmacology of a particular drug and clinical signs and symptoms described by the American Psychiatric Association (APA) (Gilman et al. 1985, APA 1987). At the same time, many features are common across different drug dependencies as discussed in the 1988 Report of the Surgeon General, Nicotine Addiction (USDHHS 1988), and clinically described by the APA (1987). Comparisons of nicotine dependence to other drug dependencies (summarized later) have revealed commonalities of both theoretical and clinical relevance (Jaffe and Kanzler 1979; Henningfield, Griffiths, Jasinski 1981; Henningfield and Nemeth Soslett 1988).

Drug Use in the Face of Harm

The simplest and perhaps most fundamental behavioral commonality engendered by dependence-producing drugs is persistent use despite knowledge of harm that may result from such use. The persistence of drug taking despite such risks and often despite wanting to stop has led to the concept of "loss of control" over drug seeking and drug ingestion. Most tobacco users believe that their

use of tobacco is harmful to their health and would like to quit (American College of Physicians Health and Public Policy Committee 1985). In fact, while the presence of an imminent health risk substantially increases the likelihood of quitting smoking, most smokers who experience a myocardial infarction relapse to smoking after hospitalization (Burling, Singleton, Bigelow 1984).

Individual Vulnerability to Dependence

The persistence of certain forms of drug dependence despite known health risks has led to the postulation of specific vulnerability factors and/or an addictive personality type which are necessary to establish the dependence. Whereas the data bearing on these issues are considerable and diverse, the following conclusion can be reasonably made: while there is some degree of overlap in personality type of individuals who have become dependent on drugs (e.g., elevated extroversion, psychopathy, and risk-taking scores on various scales), and there is some overlap in situations that are related to drug relapse (e.g., stress and anxiety) (USDHEW 1979), no specific vulnerability factors have been consistently found across drug classes and/or populations which are either necessary or sufficient to produce drug dependence, including dependence on nicotine (Lang 1983; see also Chapter 4).

The most critical factor is simple: exposure to the drug. Tobacco differs quantitatively from other drugs of abuse since an apparently greater percentage of those who sample tobacco become regular daily users than those who sample other drugs of abuse (Pollin and Ravenholt 1984). A variety of factors probably contributes to this relationship, including greater social acceptability of tobacco than many other drugs, relatively low cost, and ready availability. A factor which has received less attention is that tobacco use tends to begin at an earlier age than use of most other dependence-producing drugs (Johnston, O'Malley, Bachman 1985). Still, it remains plausible that individual factors (possibly genetically mediated) might influence an individual's vulnerability to becoming dependent upon tobacco, but this issue is unresolved for tobacco.

Deprivation Increases Drug Seeking

With the opioid drugs it is well known clinically that the probability of opioid self-administration and the self-reported craving strength is a direct function of the length of the deprivation period. Similarly, deprivation of tobacco increases the desire of the smoker to smoke eigarettes and decreases the latency to smoke when the opportunity arises. Commonly observed during the "cigarette break," "theater intermission," or when cigarettes had been unavailable for a few hours with effect has also been experimentally studied. One study showed that the deprivation effect is directly related to the time singe the last cigarette (Henningfield and Griffishs 1979). That nicetine plays a specific role in the tobacco deprivation effect has been established by several fines of evidence. For instance, the effect is inversely related to the magnitude of nicotine neeloading when moretine is given either in tobacco smoke (Herman 1974) or via other soutes of administration, including the trainsfermal route (Rose et al. 1985). Although the suppression effect is a behavioral component of drug withdrawal in the physiologically dependent person) measurable effects of deprivation on subsequent drug intake or desire to use the drug may occur in the absence of any other measured signs of with and l.



Increased Tobacco Cost Decreases Intake

For tobacco as for many other addictive substances, increasing the cost in terms of effort or money decreases intake; analogously, specific monetary incentives can be used to reduce intake of heroin and other drugs (Bigelow et al. (1981). This phenomenon has been observed in animal experiments as well (Griffiths, Birchew, Henningfield 1980). In fact, this relation even holds when per capita cigarette consumption is examined as a function of eigarette tax rates across many different countries (Grossman 1983). One experimental treatment approach that has been evaluated with opioids, sedatives, and tobacco is the use of monetary incentives to reduce or eliminate target drug intake (Stitzer et al. 1982; Stitzer et al. 1983; Stitzer and Bigelow 1985; Stitzer et al. 1986). Increasing the price of tobacco products through increased tobacco taxes would appear to be one way to apply this phenomenon at the level of public health policy (Warner and Murt 1973; see Chapter 3).

Paired Stimuli Can Increase Drug Use

The role of environmental stimuli in strengthening the control of dependenceproducing drugs over behavior has been well known, although not widely studied, for decades. The fundamental observation is that a drug can produce discrete and readily identifiable effects. Given that a drug can function as a stimulus, it follows that its stimulus properties can be extended through other stimuli that are paired with it. Nicotine in its usual vehicle (i.e., tobacco and/or tobacco smoke) seems to provide innumerable opportunities for confluence of drug exposure paired with a huge variety of stimuli. Some of these stimuli are the tobacco and the smoke themselves.

Wikler (1965) showed that the effects of opiates could be elicited by environmental stimuli previously associated with the administration of opiates. In alcoholic patients, the desire to use alcohol is increased by presentation of alcohol-associated stimuli (Pickens, Bigelow, Griffiths 1973; Ludwig 1986). Recent studies with opioid-dependent persons have found that the effects of both drug administration and withdrawal can be elicited by various environmental stimuli (O'Brien et al. 1981). Only preliminary work has been done with respect to tobacco: however, the role of nicotine-paired stimuli would appear to function analogously to the role of such stimuli in other dependence-producing drugs. For instance, Gritz (1978) found that amount of smoking decreased as nicotine-paired stimuli were removed. The subject smoked most in the full presence of the cigarette and smoke, less when a clear screen attenuated the direct smell of smoke in the room, and the least when an opaque screen blocked the sight and smell of the smoke. Using experimental animals, Katz and co-workers (Katz and Goldberg 1987) studied the role of environmental stimuli in the maintenance of behavior ultimately controlled by morphine, cocaine, nicotine, and other drugs. They found

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that the total amount of drug-seeking behavior was greatly increased when stimuli which had been systematically paired with the drug were presented intermittently. Taken together, the results of these studies suggest that part of the demonstrably strong behavioral controlling properties of tobacco are due to the seemingly ideal combination of a drug that has well-discriminated interoceptive effects along with the equally well-discriminated extroceptive stimuli which accompany every puff on a cigarette or chew on a tobacco wad; namely, the sight, smell, feel, and taste of the tobacco and/or smoke. Beyond this, the settings, circumstances, and mental states associated with nicotine ingestion likely operate as conditioned stimuli for smoking as well.

Conditioning Factors in Nicotine Dependence

Pharmacologically active agents act as unconditioned stimuli in animals and humans. Collins and Tatum (1925) recognized that stimuli associated with piate administration in dogs developed the bility to bligit salivation, an effect produced by the drug itself. Pavlov and others (reviewed in Fert, Post, Weiss 1990) described similar findings with other drugs in sifferent animal models. Wikler was among the first drug abuse researchers to describe the importance of context in drug effect and withdrawal states in humans. Wikler (1975) found that opiate withdrawal symptoms and be conditioned to the circumstances which they occurred. In smokers, greater withdrawal is experienced in natural resider than laboratory environments presumably because the natural environment contains cues associated with prior smoking (Hatsukami, Hughes, Pickens 1985). These findings suggest that stimuli formerly associated with nicotine ingestion will induce cigarette cravings and other withdrawal signs which engender cigarette smoking.

Opponent process theory (Solomon and Corbit 1973) suggests that the reduction of an aversive withdrawal syndrome is the result of the immediate (pleasurable) response to the drug, called the A state, and the delayed (aversive) response, the B state. The A and B states are opposite or opposed, hence

the term opponent process. The theory applied to nicotine dependence posits that during the onset of smoking, the pleasurable A state prevails and smoking increases. Eventually, with regular smoking, the aversive B state begins to dominate which the smoker attempts to reverse or reduce by the A state consequences of further smoking. That is, smoking perpetuates itself by reducing displeasure rather than by inducing the pleasure that initially engendered the behavior. It is important to acknowledge that neither the Wikler theory nor the opponent process theory has been empirically tested on smoking behavior (USDHHS 1988).

In contrast to these explanations that emphasize the relief of withdrawal, a recent review (Niaura et al. 1988) proposes an appetitive model of cues associated with smoking. Cues that are associated with the positively perceived effects of smoking (stimulation, relaxation), such as those cues associated with nicotine intake (holding a cigarette, the smell of smoke, etc.), elicit conditioned responses similar to the effects of nicotine. These associations strongly encourage the individual to obtain and ingest the drug. In the appetitive model, negative emotions are not necessarily withdrawal symptoms, although negative emotions formerly alleviated by nicotine may serve as a cue for repetitively administering the drug (Stewart, DeWitt, Eikelboom 1984).

Cigarette smoking has been described as a behavior thoroughly interwoven among the fabric of daily life (Pomerleau and Pomerleau 1987). The average pack-a-day smoker of 20 years duration has inhaled cigarette smoke over 1 million times. Each inhalation provides an occasion to associate nicotine with the numerous and varied circumstances of daily life. Over years of smoking, the emotional states and life events conditional to smoking continue to increase. These associated stimuli complicate the task of maintaining abstinence (USDHHS 1988).

Tobacco Taking Is Controlled by Delivered Nicotine Dose

Among the most fundamental of pharmacologic phenomena is the relationship between absorbed dose and a drug effect. Dem-

onstration that certain effects were related to the administered dose of the drug shows that the drug was relevant to the response. The role of nicotine dose as a determinant of a wide variety of centrally and peripherally mediated actions of nicotine has been systematically studied for nearly a century in a wide variety of species and preparations. Physiologic and behavioral responses to nicotine which have been studied as a function of dose include: nicotine receptor binding, effects of skeletal muscle, cardiovascular function, cortical electrical activity (EEG), appetite maded and emotional state, and even changes in the ability to learn and memorize. Nicotine produces dose-related effects on peripheral or CNS tissue affecting these and other phenomena (Gilman et al. 1985).

The carrier literature on the effects of nicotine dose as a determinant of tobacco self-administration (Benowitz et al. 1983; Finnegan, Larson, Haag 1945) supports an unequivocal general conclusion mamely, that nicotine dose is one determinant of tobacco self-administration behavior (Henningfield 1984b; Gritz 1980). The most consistent findings may be summarized as follows: increasing the amount of nicotine circulating in the plasma of the smoker (e.g., by preloading with other forms of nicotine, decreasing excretion rate, increasing unit delivered doses results in diminis and regarette smoking (Griffiths and Henningfield 1982). This effect is often termed downward compensation and appears to be somewhat a more robust phenomenon than upward compensation. However, upward compensation does occur when, for instance, subjects are given preloads of the ganglionic blocker me anylamine (Stolerman et al. 1973; Nemeth Coslett et al. 1986). The quantitative aspects of the nicotine dose-effect relations in studies of cigarette smoking have been widely debated (Gori and Bock 1980). Much of the debate has centered around the degree to which smokers regulate their intake of nicotine. Specific data have led to dichotomous interpretations. On the one hand, cigarette smokers are often viewed as titraters who carefully adjust their nicotine intake in order to maintain stable plasma nicotine levels (Schacter et al. 1977).

On the other hand, cigarette smokers have also been viewed as being remarkably insensitive to changes in nicotine dose (Russell 1979). The issues concerning the disparate interpretations of dose-response data in human studies are both empirical and theoretic. Review of the empirically based portion of this literature shows that few studies of the effects of nicotine dose on cigarette smoking provide confirmation that intended manipulations of nicotine dose had actually been affected. Many factors can determine the actual dose of nicotine delivered to the plasma. When major factors are not controlled, and there is no physiologic means of verifying that the dose manipulation obtained was intended, then the finding of a relatively monotonic dose-effect function may accurately reflect fact that plasma levels were not varied as intended.

Theoretical issues surrounding the role of dose in the control of tobacco use have been as much a cause for debate as the data themselves. It has been widely observed that decreasing plasma nicotine levels are associated with the occurrence of tobacco withdrawal signs and symptoms, including feelings of discomfort. It has also been observed that increasing plasma levels produce desirable effects (although tolerance may attenuate these effects) with continued increases eventually producing acute nicotine toxicity and feelings of discomfort. These upper and lower thresholds of nicotine intake at which discomfort occurs, and the theory that smokers will change their behavior in such a fashion as to avoid either threshold, has been termed the boundary hypothesis by Kozlowski and Herman (1984). Dimensions of the boundary vary across individuals and even within a single day of smoking in a single individual as he or she becomes increasingly tolerant. However, at a descriptive level this appears to be a generally accurate and useful concept. It is also a useful model to consider when nicotine replacement therapy is used as an adjunct in the management of tobacco dependence. For example, the Nicotine Reduction Therapy Formula is an empirically derived formula based on estimated nicotine intake (Henningfield et al. 1990).

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PSYCHOPHARMACOLOGY OF NICOTINE

What happens to plasma nicotine levels during the course of the day of the usual smoker? Smoking produces a brief surge in arterial nicotine concentrations to levels many times higher than those simultaneously observed in venous blood (Henningfield et. al. 1990) (see also Chapter 1). Following each dose of nicotine, plasma levels rapidly decline as nicotine is redistributed throughout the body; the rate of decline subsides after about 15-30 minutes to reach a fairly stable half-life of about 2 hours. The initial redistribution phase has sometimes been confused with nicotine's metabolic half-life (Rosenberg et al. 1980). Imposed on this pattern of elimination, small boli of nicotine obtained by smoking cigarettes or by rapid intravenous injection may produce plasma spikes (Feyerabend, Ings, Russell 1985; Russel and Feyeraber (1978). By comparison, venous plasma level increases from smokeless tobacco use are somewhat attenuated and they lack the marked surge in arterial level seen with inhaled nicotine from cigarette smoke (Russell et al. 1985). Within a smoker's day, these nicotine boli produce an overall accumulation of hicotine in the plasma until the point is reached (usually after about 4-6 hours of smoking) at which overall rates of nicotine excretion approximate overall rates of intake. Then, there is relatively little change from hour to hour, although between and immediately following cash cigarette there remains considerable variation in plasma level. During sleep, plasma nicotine levels may fall to less than 15% of the previous day's average (Benowitz, Kuya Jacob 1982; Griffiths, Bigelow, Henningfield 1980). This variable pattern of plasma nicotine probably enhances the effects of nicotine, by permitting the partial loss of total ance each day. Such effects would otherwise be greatly attenuated by the rapid onset of tolerance or tachyphylaxis which accompanies exposure of neural tissue to nicotine.

Remission from and Relapse to Drug Use

People addicted to a wide variety of drugs may permanently discontinue their drug use without formal treatment programs. At the same time, relapse is common, regardless of the nature of the quitting attempt. However, patterns of remission and relapse are not random; they are related to specific factors that are similar across several drug types. Some of the remission and relapse factors can be manipulated or otherwise taken advantage of when understood. Data that come from studies of the course of drug use and quitting patterns (cf. Vaillant 1970) have contributed substantially to theory and basic research, and research of this type could probably be conducted more easily with tobacco than with substances which are illicit and for which smaller numbers of users are available for study.

When people achieve abstinence outside the setting of a formal treatment program. the phenomenon is sometimes referred to as spontaneous remission. The term is a misnomer, however, in that far from being a spontaneous event, identifiable factors are often associated with such quitting, and the factors are often equivalent in their potential power to modify behavior to those offered in drug treatment programs. For example, lifethreatening health problems prompt 40-50% of patients to quit smoking (Burling, Singleton, Bigelow 1984; West and Evans 1986). Other factors associated with quitting include: social sanctions, pressure from significant others, financial problems, significant accidents, management of cravings, positive reinforcement for quitting, internal psychic change/motivation, and change in life-style (see review by Henningfield, Clayton, Pollin 1990 and Chapter 10).

Relapse to drug use is also determined, in part, by environmental pressures. Treatment programs have responded to this insight by recognizing that efforts to prevent relapse are as important as the efforts to achieve abstinence from the drug in the first place (Marlatt and Gordon 1985; USDHHS) 1988). Developing better techniques to prevent relapse might be facilitated with more extensive data concerning the relative role of various factors leading to relapse and to the most effective means to reduce their impact. In general, prominent relapse factors include the following: degree of dependence, psychiatric impairment, treatment length, modality, use of drugs and alcohol, positive expectations of outcome, peers, isolation,

lack of involvement in work, lack of active leisure, negative emotional states, negative physical states, skills deficits, negative life events, lack of needed services (see review by Henningfield, Clayton, Pollin 1990). The risk factors for relapse to nicotine that have been specifically validated include negative affect (anger, frustration, anxiety), interpersonal conflict, and social pressure (including simply being in the presence of other smokers) (USDHHS 1988).

In the case of tobacco, the nicotine withdrawal syndrome is a particularly important relapse factor in the first few weeks of abstinence. The accotine withdrawal syndrome may be a relatively weak factor for relapse after several months of abstinence, but it appears powerful though that most would-be quitters do not remain abstinent during the early period of nicotine withdrawal. This phenomenon has led to what may be termed the fallacy of Mark Twain (Henningfièld et al. 1990)—"To cease smoking is the easiest thing I ever did: I ought to know because I've done it a thousand times. —that quitting smoking is easy. The fact is that both quitting and remaining abstinent are very difficult for most people. For example, if quitting smoking is defined as abstinence for more than I week even with some professional guidance, most people do not achieve this seemingly modest goal. That is, after deciding to quit, most people resume smaking before the approximately 2 weeks during which the physical withdrawal symptoms are most prominent.

Useful Effects of Drug Administration

Tobacco, like many other abused substances, produces effects often considered useful or beneficial to the user. In fact, many drugs of widespread abuse (or forms of them) were originally developed as therapeutic agents and continue to be used as such. Furthermore, people who are dependent on drugs often report desirable and/or useful effects derived from the drug. Specifically, nicotine ingestion in the tobacco-denendent person can alleviate stress and anxety, facilitate learning and memory, and can function to control appetite and weight (Pomerleau and Pomerleau 1984; Henning-

field 1984b). Some of these effects have also been observed in animals, indicating that they may be at least partially due to direct actions of nicotine and not due simply to the alleviation of withdrawal.

Effects of nicotine administration to restore concentration and performance in tobacco-deprived people are particularly interesting. For instance, common complaints among people who have quit smoking are that their concentration is impaired, they are easily distracted, and that they cannot work as effectively on certain tasks. Cognitive impairments secondary to tobacco abstinence are measurable in laboratory settings. They are specific to nicotine since administration of alternate forms of nicotine (e.g., nicotine polacrilex) are effective, and there are a variety of electroencephalographic correlates (Pickworth, Herning, Henningfield 1986). Recent laboratory studies at the ARC confirm the organic basis of these complaints. Pickworth (Pickworth, Herning, Henningfield 1986) and Herning (Henningfield et al. 1986) and their co-workers showed altered EEG responses during nicotine withdrawal including impaired evoked "cognitive potentials" and enhancement of distractive effects of background noise; certain effects were nicotine-specific since nicotine gum could reverse them. Correlated in time with the EEG changes were impairments in performance on tests of ability, performance on rapid arithmetic, logical reasoning tasks, and so forth; these impairments, too, were reversed by nicotine gum administration (Henningfield et al. 1986). The degree to which these useful effects of nicotine persist beyond the short-term withdrawal syndrome (protracted abstinence), resulting from many years of tobacco use, is not clear at this point.

It is worth noting that such effects are sometimes termed therapeutic. However, such a statement has misleading implications when the drug is delivered in a vehicle as toxic as tobacco or the smoke of burning tobacco. Additionally, it is not clear to what degree the effects of nicotine which are useful to the user are only useful because of a long history of use. In other words, it is possible that the development of dependence to nicotine changed the person in such a way

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that the individual might never, or perhaps at least not for an extended amount of time, function at peak levels and feel normal or comfortable in the absence of nicotine. For such persons, nicotine administration might be considered useful, indeed; but the term therapeutics might best be reserved for the case of nicotine administration in approved medical products and under the guidance of a health professional.

Given the power and potency of nicotine as a behaviorally active drug, it is plausible that chronic exposure beginning in adolescence (the age at which most smokers begin), before CNS maturation, might have lasting behavioral effects. Yet, relatively little developmental behavioral research with nicotine has been undertaken. In this remaid it is of interest and concern to learn whether the even younger population (preteerage) that has begun using smokeless tobacco products will become even more dependent or nicotine. Another issue of interest may also be of relevance in the treatment of to acco dependence: the possibility that the uneful effects of nicotine administration (and conversely, the advergemented of nicotine abstinence) are related to the life circumstances of the individual parient. For instance, are the effects of chronic meetine use in sustaining concentration and logical reasoning of special importance for writers? Are the possible anxiolytic effects of nicotine of special importance for people in high stress occupations? These questions will be important to consider chinically as more pharmaceutical grade meetine delivery systems come into widespread use.

Tobacco User is a Preventable Risk Factor for Abuse of Other Drugs

Although not necessarily a causal determinant of illicit drug use, tobacco is a common part of the developmental sequence lending to such use and may be considered a preventable risk factor. For example, one study showed that among persons who had used both cigarettes and marijuana 10 times or more, 67% of males and 79% of females reported using cigarettes first (Yamaguchi and Kandel 1984; USDHHS 1988). Furthermore, levels of tobacco and alcohol use have

generally been found to be higher in persons who had progressed to illicit drugs (Kandel et al. 1978; Huba, Wingard, Bentler 1981; O'Donnell and Clayton 1982; USDHHS 1988). Tobacco also holds a special status as a "gateway" substance in the development of drug dependencies not only because tobacco use reliably precedes use of illicit drugs, but also because use of tobacco is more likely to escalate to dependent patterns of use than use of other dependence-producing drugs (USDHHS 1988).

The incidence and severity of various drug dependencies are related to the level of tobacco use. Patterns of tobacco use predict the extent of use of other psychoactive drugs, especially in youth. Clayton and Ritter (1985) found that alcohol drinking and cigarette smoking were the most powerful predictors of marijuana use for both males and females. The relationship was strongest when cigarette smoking had begun before the individuals were 17 years old. In a longitudinal study, Ary and associates (1987) interviewed more than 300 male adolescents twice, at 9-month intervals, to determine their use of various psychoactive substances. They found that users of smokeless tobacco were more likely to use cigarettes, marijuana, or alcohol than nonusers, and that smokeless tobacco users who were using these other substances at the time of the first interview showed substantially greater increases in levels of use of these other substances by the time of the second interview. Analogously, students in grades 7-12 in New York State showed a positive correlation between frequency of drinking alcoholic beverages and daily cigarette consumption (Welt and Barnes 1987). The 1985 National Household Survey also revealed a crude but consistent dose response relationship between smoking and other drug use (USDHHS 1988; Henningfield, Clayton, Pollin 1990).

CONCLUSION

The pharmacologic properties of nicotine and its patterns of use share many characteristics with other prototypic dependence-producing drugs. Nicotine satisfies the major and minor criteria (Table 2-1) that define a

dependence-producing drug. Initial use usually on a trial basis—often escalates as a process of dose graduation to a full level of dependence (physical as well as behavioral). The enhancement of performance, mood, and feeling are critical factors in the drug's ability to control behavior, and the high availability, low cost, and high acceptability of the product promote (rather than deter) dependence. When cigarette smoking was regarded as a voluntary pleasure or a simple habit, there was little reason to treat it as anything else and, in fact, there were limited resources available to the smoker who wanted to guit other than his own determination and motivation. Now that tobacco use has been more universally accepted as a form of drug dependence in which michtine is the critical abuse-producing agent, there is a rational basis for the treatment of cigarette smoking based on experience with other forms of drug dependence (APA 1987).

While such a conclusion may discusarage some, for most it should come as a relief to discover that their difficulties in quitting and the pleasures by associate with to acco are not merely psychological may are not ically based. Moreover, they can be treated. In fact, the acknowledgment and acceptance that much of sobacco use is an addicate disease is actually leason for encouragement in treating cigarette smoking, for it provides a rational basis for combining adjunctive pharmacologic intervention with behavioral and other management technique.

The role of meetine in the compulsive use of tobacco products is now known to be equivalent to the role of cocaine in coca leaf use, ethanol in a coholic beverage consumption, and morphine in opium poppy use. That is, these substances produce effects in the CNS that can be reinforcing to animals and humans alike, they all produce a range of effects that users may report to be "useful" or "beneficial," and at least with respect to nicotine, alcohol, and morphine, a distinct state of physical dependence may result from repetitive administration of the drug. Tobacco use, particularly in the form of cigarette smoking, is an orderly behavior that is ontrolled by the same behavioral and phar-

inacologic variables as are the more com-

monly studied forms of drug dependence

(Jasinski, Johnson, Henningfield 1984). These common factors suggest that treatment programs for cigarette smoking could be enhanced by incorporation of clinical strategies proven effective with people dependent on other drugs.

Various issues involving the nature and development of drug dependence continue to be investigated and debated. In this regard, drug dependence is no different from any other disease state that is well understood along several dimensions and less well understood along others. For example, the relative contribution of individual vulnerability to development of addiction, the reasons for the persistent drug craving that can occur at extraordinarily high levels years after abstinence from the drug, and explanation of the powerful gateway effect of nicotine to other forms of drug dependence remain issues of controversy. While much remains to be learned, the fact that the tobacco user is subject to the behavioral and direct pharmacologic influences of an addicting drug, nicotine, and that many of these can be mitigated by medical treatment. is now well understood.

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HOW TO STOP CIGARETTES FOR LIFE John A. Moore,

JOHN OLIVER COMPANY, MOUNT VERNON, NEW YORK

eating cranberries, from this single, unconfirmed report, and nearly wrecked the industry. Later, the government corrected the report by explaining that while there could be miniscule cancer-producing carcinogens in cranberries, the amount was so infinitesimal that one-would have to eat tons of them to get the amount of cancer-producing possibilities that are present in one carton of eigarettes.

However, at Thanksgiving dinner that year, there were no cranberries. People just switched to jello or jam. But, at the said of every meal, the smokers pulled out their packages of cigarettes and enjoyed them. Enjoyed them in spite of the fact that there had seen twenty-eight reports, confirming beyond any doubt, (except to the tobacco industry), that inhaling cigarette smoke through the lungs, can and does and has produced lung cancer.

The conclusion, of course, is that, like spinach, cranberries are not addictive, and there are a dozen substitutes for granberries. But, inhaling eigarette smoke through our lungs for the brain stimulation it gives, is definitely an addiction for many. The above is mentioned to show, whether we like it or not, smoking a pack of eigarettes a day, or more, is not just the pleasant, relatively harmless habite that eigars and pipes were for our forefathers. It is because of the schalation a dangerous lung and heart-affecting addiction. Whether we call it habit, habituation or addiction, makes no difference. The is only a matter of terminology. And no one means to imply the we smoker is an addict in the same sense of the body and mind-wracked narcotic drug addict.

But, as any heavy smoker who tries to stop without withdrawal help knows, the symptoms are similar, though not as nerves and compared to the ordeal the drug addict undergoes when he is to kick his habit cold. I have heard otherwise normal cigarette care say that the first day without a cigarette was so terrible they wanted to climb the walls and hang from the ceiling. This is a wife geration in my estimation. That is not like giving up cranberries candy. That is an addiction to an addictive drug, and to prove a quote

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MANUDUCTIO AD MINISTERIUM

DIRECTIONS FOR A CANDIDATE
OF THE MINISTRY

By COTTON MATHER



Reproduced from the Original Edition Boston, 1726

WITH A BIBLIOGRAPHICAL NOTE BY
THOMAS J. HOLMES
AND
KENNETH B. MURDOCK

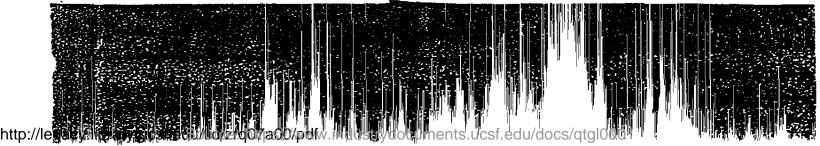


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use a little Wint for the Stomach & the MASO WELL would fay, unon Brinking a Gassaf Generous Wine, often the a Glass of Water. And il the Beer they bring you, be too Strong, dilute it with putting a sufficient Quantity of Water into it. But never take Water, or any thing elfe, Cold, when you are Het with Labour. There is Death in the Pot.

When you have run the hazard of diffurbing your Stomach, with Ingurginations from a full Table, a Draught of Cold Waler, will to Good the a Medicine.

Going to Bed, and Sweating from a large Draught of Cold Water, not only flops and cures a Cold, but also often extinguishes a Fever at the Beginning.

Daily to wash your Head and Mouth with Cold Water, is a Practice that cannot be too much commended: If it were only for faving you from the Tootbache.

For a Frequency in the Use of the Liquors, which they call Spirits, be as alraid of it, as you would be of a Familiarity with Evil Spirits.

VI. When you go to Infectious Places, one of the best Things you can do, is to hold and chew 2 bit of Myrrb in your Mouth.

VII. To feed much on Salt-Meats, won't be for your Safety. Indeed, if less Flesh were eaten, and more of the Vegetable and Farinaceom Food were used, it were better. The Milk-Diet is for the most part some of the wholesomest in the World! And not the less wholsome, for the Cocoa-Nutt giving a little Tincture to it.

VIII. Shall.

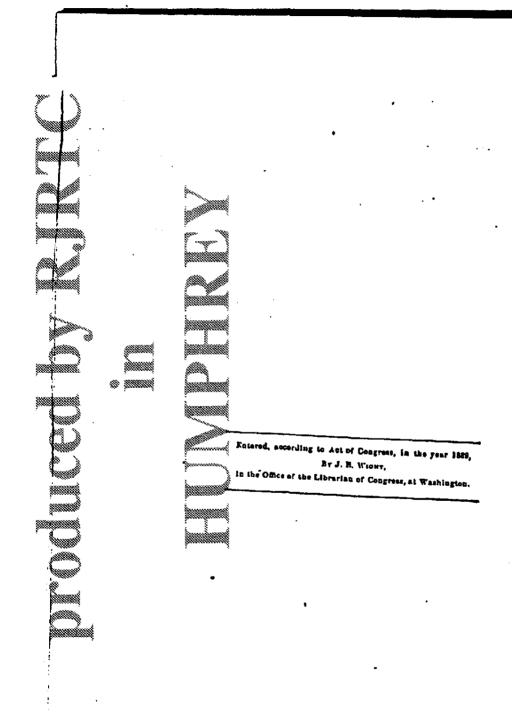
18 Sound the Trumpets. WIII. Sha Unoke Tobago? Answer: Be fure Not il Car help it. Or let Maed anf ver for me. Maximus Tabaci Abufm eft, quotidiano ejus ufu, femetiplas, et banas Horas perdere, et ex cerebro, meneu nebilissim: sede, caminum et cloacam essicere. In the Datchy of Berguen, People may not Smoke, without purchasing a License for it. If you were to purchase of me a License for it, I know not how high Tennial Mould hold you to. If you want an Padracogue there is one preferrible in chewing fame fugh Thing as a bit of Mallieb; which would also whiten your Teeth, and sweeten your Breath, which Tobacco poisons. If once you get into the way of Smoking, there will be extreme hazard, of your becoming a Slave to the Pipe; and ever Infatiably craving for it. People may think what they will; But fuch a Slaver, is much below the Dignity of a Rational Creature; and much more of a Graciom Christian. I am sure, what the Great Vectim writes upon it, is very tene; Minime convenit viru boneflu et graviben ; neminatim Minifira et Ministerii Candidatu. There can be no Apology for your taking up the flowenly Practice, and the Pains that must be taken to conquer the Poison, if you are not well advised and affored, That your Health requires it. But I shall only recite what you will find in Two very confiderable Writers, that you may form the better Judgment upon it. The One of these Writers is Magnenen; who tho' he be a mighty Friend to the Use of Tobacco, yet acknowledges, That it is not easy to relate, what are the Damager, which the Inordinate and Immoderate Use of this Fume does bring with it; for besides the insatiable and " greedy

ITS USE AND ABUSE.

BY REV. J. B. WIGHT, Of the South Georgia Conference.

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PRICE \$1. DELDER OF L. L. PIONETT COLUMBIA, S. C.



Tobucco: Il Use and Abuse

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sert his manhood he again resorts to his drug to ense the Inshings of outraged conscience. Good men and women all over our land know how hard it is to rout the devil from any of his breastworks; and it seems that the tobacco-sin takes about strong hold upon us as any other.

Such is this tobacco-slavery, and it numbers among its victims more persons than were ever capttured in war in Attica or were brought from Africa in ships. But the Greeian and African slave showed this superiority to the tobacco-slave, in that, while the former wished to be free, the latter is a willing victim to this servitude. And yet he claims to be a Christian, and to live by the light of reason and revelation! We pity the victims of opium and alcohol; but does not the victim of tobacco also deserve our sympathy?

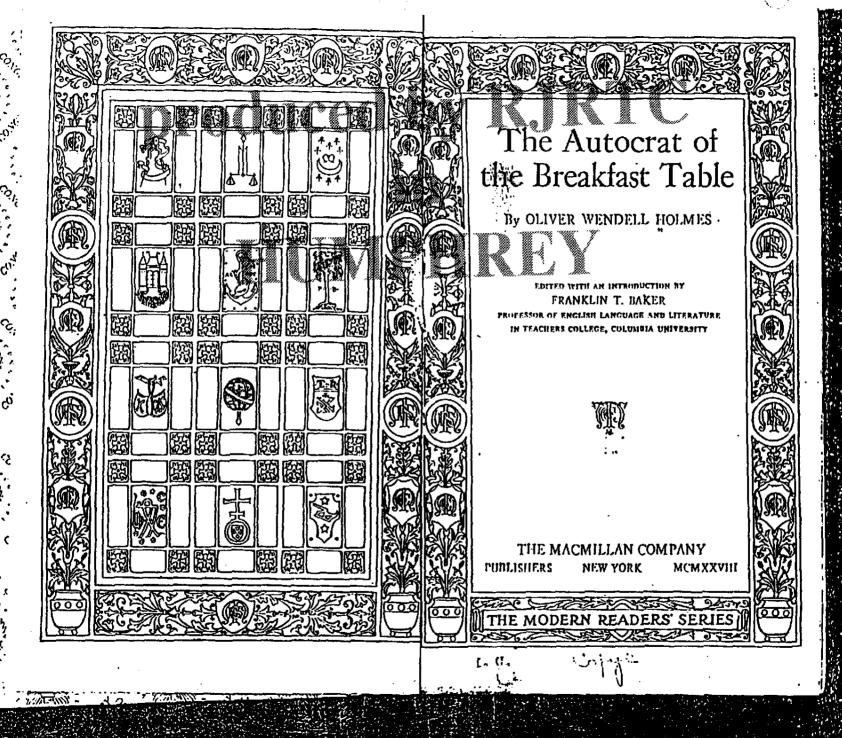
THE USE OF TOBACCO TENDS TO DEADEN THE SENSE OF DECENCY.

It is an old charge against tobacco that its use is indecent, and that it tends to blunt one's sense of propriety. Those whose senses have not been perverted by the weed know this, and many old devotees even will recognize the truth of the charge. Were it not so common it would be surprising to see how fift devotion to tobacco will sometimes carry a man in the disregard of his own appearance and of the rights of others.

The labit of using absect," says Dr. Mussey, s unalcanly and impolite. It is uncleanly from the foul odor, the muddy nostril, and darkly-smeared lip it confers, and from the encouragement it gives to the habit of spitting, which in our country would be sufficiently louthsome without it. By what rule of politeness may I poison the air that my neighbor is compelled to breathe, or so load it with an unhealthful and loathsome material as to make him uncomfortable and wretched as long as I am in his company?"

A writer in the London Freeman says: "A great number of smokers seem to have lost sight of politeness! Their smoking makes them rude. Why should a smoker blow his smoke in my face, or allow the dust of his weed to get in my eyes? Why should be think it not indecent to frequently expectorate in my presence? I have us much right to scatter fine, strong pepper, and half blind the

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nersen. The me is again the broad leaves of the mith that fusiform, spiral-wound bundle of chopped Great Vegetable had sucked up from an acre and steems and miscellaneous incombustibles, the eigar, so curdled into a drachm are diffused through its thirst-called, of the shops,—which to "draw" asks the ing pores. First a discoloration, then a stain, and at suction-power of a nursling infant Hercules, and to ing pores. First a discoloration, then a stain, and at suction-power of a nursling infant Hercules, and to last a rich, glowing, umber tint spreading over the stain, the leathery palate of an old Silenus. I do not have a rich, glowing, umber tint spreading over the stains, the leathery palate of an old Silenus. I do not advise you, young man, even if my illustration strike advise you, young man, even if my illustration strike and huc, you see,—as true in the fire of the meeting your fancy, to consecrate the flower of your life to painting the bowl of a pipe, for, let me assure you, schaum as in the sunshine of Octoberl And then the schaum of a reverie-breeding narcotic may strike the stain of a reverie-breeding narcotic may strike deeper than you think for. I have seen the green who inhales its vapors takes a thousand whilfs in a deeper than you think for. I have seen the green single breath; and one cannot touch it without the sunder such Nicotian regimen, and thought the smell of flowers clings to the dresses of the daughters tumbered meerschaum was dearly bought at the cost of the house of Farina! of the house of Farina! [Don't think I use a meerschaum myself, for I do Violins, too, the sweet old Amatil-the divine

species) my granusire won, together than a characteristic pequeathed to the passionate young enalizable and beaded knife-sheath; paying for the local thusiast, who made it whisper his hidden love, and with a bullet-mark on his right cheek. On the many carry his inarticulate longings, and scream his untold ternal side I inherit the loveliest silver-mounted agonies, and wail his monotonous despair. Passed

good for nothing until they have been kept a long tobacco-stopper you ever say It is a title box-wood good for nothing until they have the large of the state of the large of the state o offerings to the cloud-compelling deities. It comes Neither will I pretend that I am so unused to the to us without complexion or flavor,—born on the seatous without complexion or flavor. foam, like Aphrodite, but colorless as pallide Mon to while would make me feel as if I lay in a ground-herself. The fire is lighted in its central shrine, and the savel on the Bay of Biscay. I am not unacquainted

not, though I have owned a calumet since my child- Stradivarius! Played on by ancient maestros until hood, which from a naked Pict (of the Mohawk, the bow-hand lost its power and the flying fingers species) my grandsire won, together with a tom-

sert his manhood he again resorts to his drug to ease the lashings of outraged conscience. Good men and women all over our land know how hard it is to rout the devil from any of his breastworks; and it seems that the tobacco-sin takes about as strong hold upon us as any other.

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TOBACCO:

ITS USE AND ABUSE.

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PRICE \$1. DELDER OF L. L. PICKETT COLUMBIA, S. C.

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sist that I am not the person with whom they transacted business in 1865 ar 1866—four years ago.' In June, 1870, Mr. K. weighed upward of one hundred and eighty pounds. His triumph over the vice which is preying upon the vitality of thousands of his fellow-men is well attested by his renewed manhood. His hair, as well as his fest and health, returned to him."

Here are several cases, given by Meta Lander in her excellent work, "The Tobacco Problem:" "'From about fifteen to thirty,' Dr. S. II. Cox wrote, 'I am ashamed to say I smoked; my conscience, as well as my best carthly friend, often upbraiding me. Still I made excuses, and my physician, a smoker, helped me to some. So I continued till once, on board a steamer, a drunken gentleman staggered up to me, exclaiming: "Give me a-a l-ight, Dr. Cox." I handed him my cigar. He returned it. I threw it overboard, and since have never ceased to thank God that I have been enabled to keep myself from so foul and odious a sin.' In replying to a letter from Dr. Cox, John Quincy Adams wrote: 'In my early youth I was addicted to tobacco in two of its mysteries-smoking and chewing I was marked lown medical friend of the pernicious operation of this habit upon the stomach and nerves, and the advice of the physician was fortified by my own experience. More than thirty years have passed since I deliberately renounced the use of tobacco in all its forms; and, although the respliction was not carried into execution without strugg of vitiated nature, I never yielded to its impulses. I have often wished that every individual of the human race afflicted with this artificial passion could prevail on himself to try the experiment which I made; sure that it would turn every acre of tobacco-land into a wheat-field, and add five years to the average of human life.' Prof. Dascomb, of Oberlin, learned to smoke when a boy. His physician, though himself a smeker, said to him: 'You will live only a few years if you continue this habit. I cannot break it off, but you are young, and may be able to do so.' The boy undertook it, and succeeded, although to the end of his life he suffered from the effects of his early indulgence. A well-known doctor relates that after smoking for twenty years he took a vow of abstinence for one month. 'Never,' he says, 'did boy

Alcohol and Tobacco.

DIOCUCO DE ALCUHOL: ITS PLACE AND POWER

BY JAMES MILLER.

HUMPERE

USE AND ABUSE

TOBACCO.

BY JOHN LIZARS.

NEW YORK Intional Temperance Society and



ble. It follows as often from too much snuffing as too much smoking. The treatment consists in "throwing away telefron for see," inserting selections fit the funding region looks sudd hattling, and good day.

29. Hanta is a fearful result of the excessive use of tobacco - two cases of which I have witnessed since the publication of this treatise. I have also to mention, that a gentleman called on me, and thanked me for the publication of my Observations on Tohacco, and related to me, with deep emotion, what had occurred in his own family from smoking tobacco. Two amiable younger brothers had gone deranged, and commence suight. There is no hereditary prolimentation to man a if the family. At a meeting of the Medical and Chinargial Society of London, on May 2d, 1854, a paper was read, entitled, "Additional Remarks on the Statistics and Morbid Anatomy of Mental Diseases," by Dr. Webster, wherein he cites, among the causes, the great use of tobacco, which opinion he supported by reference to the statistics of insanity in Germany.

30. Less of memory takes place in an extraordinary degree in the smoker, much more so than in the drunkard, evidently from tobacco acting more on the brain than alcohol. The cure consists in "throwing away to bacco for ever."

31. Amourosis is a very common result of smoking tobacco to excess; but I have never seen it produced by snuffing or chewing. It occurs with or without congestion of the brain. It is commonly confined to one eye. It is generally curable, but not always, by "throwing away tobacco for ever"—by inserting a seton in the

back of the neck, another seton in the temple or temples, seconding as prescribed type are affected. In the course of sight or the days, the seton in the temple is to be withdrawn, a common by blister applied, and the blistered surface sprinkled with strychnia. The bowels to be freely opened with calonel and aloes. The diet to be light, as the farinaceous. The patient should be confined in a large, well-ventilated apartment, and an obscure light.

32. Deafness is not so common a sequence to smoking tobacco as amaurosis. It is to be treated on precisely the same principles, with the difference of applying the liners and strychnia behind the cars.

33 Nerrousness is remarkably common from indulging too much in smoking, snuffing, or chewing tobacco. It is to be treated by "throwing away tobacco forecer"—by having recourse to the shower-bath in winter, and sea-bathing in summer—by nourishing diet, attention to the bowels, the alterative powder, as prescribed under ulceration of the lips, the tonics, as quassia and gentian, and even quinine; exercise in the open air, and by mixing in quiet, agreeable society, as the nervous system is easily and readily over-excited; and, lastly, by change of air, and ultimately travelling about.

34. Emasculation, as an effect of tobacco, may well astonish the gay Lothario, as he might, unconscious of the cause, have boasted, that "never in my youth did I apply the means of weakness and debility." I have been consulted by fathers of from thirty to forty years of age, who, having married in early life, have had two or three children soon after marriage onwards in thirty

years old, but have been surprised that they had even tually lost all inclination for sexual indulgence. On interrogating them, I have invariably found that they were all excessore analysis and an envise of them and the bacco was the cause of their surporary impatence, they have instantly "thrown away tobacco forcer," and in a few months after have returned to me, saying that they had become fathers again. I have found unmarried men similarly affected with the want of the sexual vis et animum.

35. I have invariably found, that patients addicted to tobacco smoking were in spirit cowardly, and deficient in manly fortitude to undergo any suscicul operation, however triffing, proposed to pieces that from the infering of other complaints. In such cases therefore is a great boon.

36. When we consider the effect of tobacco in tetanus, and in strangulated hernia in former days, we can readily comprehend its powerful narcotic effects: they are stronger than opium—opium differing from tobacco only in constipating the bowels. The use of tobacco for medical purposes has been long known, but its application has been carried, fundamentally, of late, to the full extent to which the human body can be subjected—a cigar having been actually inserted into the anus, by an American physician, as a medical reagent—thus introducing the poison into every vital passage.

37. The number of people who from twelve years of age are given to smoking, snuffing, plugging, and chewing, or quidding the noxious weed, appears quite incretible. By its so general consumption, we must become

changed in both corporeal and mental faculties-we cannot fail to be entirebled in body and mind, and become a determentation raise. I have provelled with a gentleman from Smith Jungica, who first filled his nostrils with smill which he prevented falling out, by stuffing shag tobacco after it, and this he termed "plugging" -- then put in each cheek a coil of pigtail tobacco, which he named "quidding," in this country called "chewing:" lastly, he lit a Havannah eigar, which he put into his month; and thus smoked and chewed, putling at one time the smoke of the eigar, and at another time squirting he price row his mouth, as so graphically described by lickens hathe boat story, on the way to the Far Wen. This contleman was as thin as a razor, with an olive-colored countenance, and frightfully nervous. The preceding is neither a caricature, nor an exaggerated account of the fearful extent to which the use of tobacco is carried - not merely in Europe, as we know, but, as there is every reason to fear, in every quarter of the globe where it either grows, or is unhappily conveyed.

38. There can be no doubt, from what has occurred in the war just ended, that had the Turks never indulged in the vicious habit of smoking tobacco, they would not have required the assistance of the French, Sardinians, and British. They would have been as powerful as in the days of the Sultans Othman, Orchan, Amurath the First, and Bajazet, and would have sent such a message through Menschikoff to the Czar Nicholas, as the Sultan Bajazet said to the Count de Nevers, of France, when taken prisoner after his celebrated mosuccessful cavalry charge (like that at Balaklava) near Nicropolis.

PRESS CLIPPING BUREAU

FABLAFATETTE ST. . FEW YORK

YIILA PA IIVE LEDGER FRHEUARY II, IDID

AN ON PIPE AND CIGARETTE PLAN OF GROUP OF PENN MEN

Student Committee Starts Campaign to Abolish Tobacco Smoking From Hall and Campus of University-Pamphlets Circulated and Some of Faculty Back Idea

A movement for the abolition of smoking tobacco has been started by a group of students in the University of Penn-Privania.

Backed by the favorable attitude of several faculty members and athletic Instructors, a campaign committee has been formed to carry the anti-tobacco propaganda to the entire student body of the University.

A large number of pamphiets setting forth the evils of smoking already have been distributed among the students.

The movement is favored especially by the students of the medical school. of which the leader in the action is victor C. Rambo, a sophomore. The medical school has the largest representation on the committee, but all departments, including the college, are represented. The president of the se-nior class, Samuel R. Harrell, who is

a member of the Wharton School, is a committee member.

The sponsors of the movement quote professors and coaches as realising the value to the individual student by his elimination of smoking.

Dr. R. Tait McKenzie has pointed out

its svila "Lawson Robertson, the coach of the track team, stamps smoking as being "as bad as drinking for the athbeing lete."

lete."

Dr. M. Willard Lante, of the Christian Association, says that it is not necessary to smoke to enjoy the fullest and most pieusurable social intercourse. Mr. Terrone, the fencing team coach, makes a lungs at the habit when he says, "the tabacto-habit is the monkey-like attitude of humanity."

The expensive has drawn attention to

The examittee has drawn attention the fact to strengthen its hand, that the last three commanders of the American army have been tobacco abstainers. No originised opposition to the movement the students has as yet take force.

Commonwealth of Pennsylvania

HE SCHOOL CODE

AND

Other Laws Relating to the Public Schools

NATHAN C. SCHAEFFER SUPERINTENDENT OF PUBLIC INSTRUCTION

HARRISBURG, PENNA.:

J. L. L. EUBN, PRINTER TO THE COMMONWEALTH
1917.

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nine aute meridian and close at four post meridian, with an intermission of one hour at noon, and an intermission of fifteen minutes in the forenoon and in the aftermore.

Commencements.

Section 1655. The benefit a shoot directors may fix the date of the school commencement, and shall pay such expenseds in connection therewith as it may determine.

COURSES OF STUDY.

Branches of study

Section 1607. In every elementary public school, es tublished and maintained in this Commonwealth under the provisions of this act, there shall be taught in the English language the tellowing common Paglish branches: Spelling, rending, matting, neithrestic ged raphy, English grammar, listory of the United State and of Pennsylvinia, including the clements of civil government, blysiology and hygiene; also a system of humane education, which shall include kind treatment of horses, birds, and other animals, together with such other branches, including vocal music, public spenking, drawing, physical training, elementary manual training, clementary domestic science, and elementary agriculture, as the board of school directors in any district, with the approval of the proper superintendent of schools, glay prescribe: Provided, That in all school districts of the first class, physical training shall be carried on as a part of the regular darse of

education.

Vical music,
dimentio actence.

Hamana

Provide.
Physical training.

Arrangement of courses.

nesi M.

Physiology and hygions.

Rifert of elcobolic drinks, etc.

Tuberculusia

study in the public schools.

Section 1608. The board of school directors in every school district in this Commonwealth, with the advice, assistance and approval of the proper superintendent of schools, shall arrange a course or courses of study adapted to the age, development, and needs of the pupils. These courses of study shall conform to an general course of study arranged by the Superintendent of Public Instruction, so far as the local conditions in respective districts permit.

Section 1609. Physiology and hygiene, which shall in each division of the subject so pursued include ape

Section 1609. Physiology and hygiene, which shall in each division of the subject so pursued include special reference to the effect of alcoholic drinks, stimulants, and narcotics upon the human system, and which shall also include special reference to tuberculosis and its prevention, shall be introduced and studied as a regular branch by all pupils in all departments of the public schools of this Commonwealth, and in all educational institutions supported wholly or in part by money from this Commonwealth.

ARTICLE I.

that are person to shall furnish to any miner, by gift, sale, or otherwise, any eigerette or eigerette paper, shall be guilty of a misdemeaster, and upon conviction thereof shall be sentenced to pay a fine of not less than one hundred dollars (\$100.00), nor more than three hundred dollars (\$300.00).

EIGARETTES.

Minors who refuse

Cigarettee and

Violation.

Penalty.

cigaretta Daner.

to furnish information.

i^{Fine,}

Under 16 years.

Any minor, being in possession of a cigarette or of cigarette paper, and being by any police officer, constable, juvenile court officer, truant officer, or teacher in any school, asked where and from whom such rigare or cigarette paper was obtained, who shall refere to furnish such information, shall be guilty of a misdemennar: and whon conviction thereof, before any alderman, magistrate, or justice of the peace, such minor, being of the age of sixteen years or up; wards, shall be sentenced to pay a fine not exceeding five dollars, or to undergo an imprisonment in the fail of the proper county not exceeding five days, or both. If such minor shall be under the age of sixteen rears, he or she shall be certifled by such alderman, magistrate, or justice to the juvenile court of the county, for such action as to said court shall seem proper.

Act May 7, 1913. P. II page 198.

ARTICLE J.

CONSOLUDATION OF PUBLIC SCHOOLS.

When not shall be

Receiled of a

Provise.

modern building

That whenever graded schools can be made to accommodate the pupils of one or more ungraded schools, by consolidating said ungraded school or schools with another school, either graded or ungraded, it shall be the duty of the board of school directors to abandon the one-room school or schools, and, instead of repairing or rebuilding the one-room schoolhouse or schoolhouses, they shall erect a suitable modern building for the purpose of consolidating and properly grading all of the said schools: Provided, That no pupil of the abandoned schools shall be required to walk more than a mite and a half to the new school building.

Act April 13, 1911, Sec. 1, P. L. page 63.

BURNLLES

PRESS CLIPPING BUREAU

145 LAFAYETTE ST., NEW YOR

FEBRUARY II, U.

NOW FOR DEMON TOBACCO

University Christian Association I.

Since arrangements have been completed for the relegation of demon rum
to the limber of things forgotten, the
University Christian Association at the
University of Pannsylvania has disclosed that the tobacco habit is injurious
to students and has inaugurated a campaigu to teach them the evils of nicotine.

paign to teach them the evils of hicotime.

The crusade was opened yesterday with the distribution of anti-tobacci literature among the student body. The pamphleta set forth "seem to have made tobacco sacred," but contend the title last three Commencers-in-Chief of the American Army were not addicted to its use.

They further assert that General Great

They further assert that General Grant died from the effect of a cancer poduced through snoking and declare that statistics have shown that non-smoking shoot mono accurately than do sold given to the use of tobacco.

Part 37

BEST BY ATTEST

Original Romeike

PRESS CLIPPINGS

220 WEST 19TH ST., NEW YORK Tel. Chelses 8860

THIS CLIPPING FROM THE

ALLENTOWN PA.

LEADER

FEST Plan

OLLEGE MEN TO AID WAR ON CIGARETTES

Mago Bezdek Chief Crusader of Unique Campaign Among High School Boys.

The appearance of Hugo Bezdel, Penn State coach, in this city on Rhursday, Feb. 21, will insugurate an effort to rid the city of cigarette which are also as a far as it affects boys of the Junior High School. Mr. Berdek will address upper class boys of the High School in the morning, and the afternoon will talk to the Freshmen.

Br. Bezdet will be followed on later days in the Junior Fifth mools by leading sthletes of Mubicuberg. Lehigh, Lelayetts, Principal and University of Pennsylvants.

conbrg. Lally Lalayett, Principal and University of Pennsylvasia. The plan came about as the Pelide Bepartment, represented by Chief Beranned and Detective Nixou; Rev. Dr. W. E. Broom and Francis K. Berkomeyer. of the Fyderation. of Churches: Rev. Dr. H. C. Lilly, H. H. Dent, Harry Wieland and John Durno, Y. M. C. A.; Supt. H. W. Dodd. Daniel W. Hamm, F. Co.; Seidel: and Ribbard J. Schmoyer, public schools.

public schools.

The college men have taken to the dee of aiding the crusede. Bill Skean, the Mühlenberg football player, will be one of the cruseders, and John Henry Leh it arranging in have one of Princeton's most familiary come to this city.

Levan-Levier of the Lawter Lawter.

Levan Lawier of the Lawier Lawie Co. has been coverated with the book mittee and has secured the personal permission of Henry Ford to reprint a famous booklet the The Cornetty Burl Among Boys, for describing

http://legacy.library.ucsf.ec&u/tid/zrq07/a00//pdfw.industrydocuments.ucsf.edu/docs/qtgl0001

BURRELL PRESS CLIPPING BUREAU

145 LAFAYETTE STREET

NEW YORK

BMINADELPHIA BULLETIN AUGUST 30, 1921

EDUCATOR RAPS SMOKING BY WOMEN TEACHERS

No Place in Schools for Them, He Tells -Institute

"There is no more pince in the pubic schools for the teacher who smokes. than there is for a snowball in the for-rid regions—and that includes women

tenchers as well as men."

Dr. L. H. Beller, president of the
State Normal School at Minot, N. D., made this statement today in his address at the Montgomery County Institute, in session at the Norristown High

tute, in session at the Norristown High School.

"I do not know from actual observation, but have been told that many women teachers amoke," he said.

The morning session was also addressed by Dr. Charles T. McFarlane, of Teachers' College, Columbia University, and Dr. George William McClelland, of the University of Fennsylvania.

Teachers who develop initiative in children are successful, said Dr. G. E. Pouglass, assistant superintendent of Baltimore schools, at the opening of the Abington-Cheltenham Institute, at the Elkins Park High School, yesterday. He urged teachers to drop "autocratic methods."

Dr. D. Whitner, of Harrisburg, said home conditions and natural fyclinations should be considered in outlining industrial training.

THIS CLIPPING FROM THE READING / APRy 1923

BAN ON GIRL SMOKERS.

The feminine cigarette emoker is not wanted at the Edinboro State Normal School, Miss Helen Kunkle, dean of women, made this plain in a recent announcement.

"Any girl who is found smoking a cigarette will be expelled," Miss Kunkle declared. "If a cigarette is found in any girl's room, she will be dismissed without having an opportunity for justification. I will not have my girls smoking. The habit not only lowers the standard of the school, but cheapens a girl."

The dean asserted, however, that smoking is not prevalent in the school, and students said few of their number are using tobacco. Miss Kunkle's announcement is designed to stamp out the practice entirely. The student body has taken steps to support her, and the student council has ruled that the boys must not smoke on the campus nor, at the various games.

MAN DOWN SHIRING NEED

SUPELLE'S
CLIPPING
UREAU

W YORK!

N Y C POST APRIL 7, 1923

Pupils Demand School Board Stop Smoking

Hazleton, Pa., Threatened With Students' Strike Unless Officials Change Their Habits

HAZLETON, Pa., April 7.—Pupils of the eighth grade at the West Hazledon public school have sent a communication signed by the Health Committee," demanding that the School Board, which meets in the eighth grade room at the school building, abstain from smoking at their meetings. Unless they did the communication stated, there would be a general strike of students.

A warning against "smoking up the building" at board meetings, recently issued by the students, was ignored, they declared. Members of the board said if the strike threat was carried out the State attendance laws would be invoked.

" " " " 17 1.7.

PRESS CLIPPING BUREAU

NEWYORK

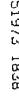
NEW YORK CITY SUN'

Women Smoking Assailed By Catholic Educators

PHILADELPHIA, June 23 (A. P.).—
The problem of smoking among women, especially college women, is being given heavy consideration at sessions of the National Catholic Educational Association in convention here. Penalities, even to refusing to grant honors to college women who smoke, were proposed to the college section of the association yesterday.

Solemn pontifical mass was celebrated this morning, after which Bishop Francis W. Howard of Covington. Ky., president-general of the association, and the Rev. Edward B. Jordan of Catholic University, Washington, were to address the general convention.

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COURSE OF STUDY IN

HEALTH INSTRUCTION

AND

PHYSICAL EDUCATION



GRADES VII-VIII

BULLETIN 12 C



HARRISBURG ****** PENNSYLVANIA



GRADES SEVEN AND EIGH

HEALTH INSTRUCTION

The material presented in this course for seventh and eighth grades is approached from a somewhat different viewpoint than that of the first six years. The difference is not be faunt bruch in the paints of emphasis. In grades one to six induces, he compasses a phoesi primarily on the formation of proper fronth natits and attitudes without giving a detailed consideration to human physiology. Beginning with the seventh year, material is included which gives the child a basic physiological understanding of the necessity for certain health observances.

In the selection of the units of instruction, an effort has been made to select those of particular importance at these ages, and for those who will leave school before having the apportunity to continue a study of the units provided for grades above the celebration of the continue as suggested, together with the number of periods to be given to each are as follows:

| Grade VII ' | | |
|--|--|--|
| Unit Safety Education Physical Activity and Postare Rimalants and Narcotles The Selection of Foods The Health of the Respiratory System | 60 Minute Period 3 5 3 42 12 | 30 Minul Period G In G 26 21 |
| Grade VIII | | |
| Safety Education Physical Activity and Posture | 3 5 | 6 |
| Stimulants and Narcotics The Control of Infection | 3 | 10 6 |
| Care of the Special Senses | 10 7 | 20 14 |
| Health of the Circulatory System | ų | 14 |

It is recommended that an equal monder of textbooks of each kind be purchased. This method provides more sources of material, broader viewpoints and is no more costly than the purchase of one book. It also means that each unit of instruction can be developed more effectively and extensively.

While the units of the program in health instruction are intended to be complete in themselves, apportunity should be taken to integrate the health problems of other subjects with the material herein offered. For example, the study of history provides many apportunities to relate the success or failure of colonization, wars, or economic movements with health factors. For example, failure of early colonization in America, due to epidemics of infectious diseases, and disease due to contaminated food; typhoid fever and smallpox as factors in the conduct of all of our wars excepting the world war, influenza in the world war; the effects of undernourishment upon the future generation in periods of economic depression.

- 5. Learn from reports of headh examination recommendations in regard to removal of tonsils and adenoids. Try to secure 100 percent correction.
- 6. Study the life of Trudeau.
- 7. Study the care of children in open directions. Emphasize the wexidence of improvement through a hygienic regime of living.
- S. Take a study of the prevalence of colds among classes; try to improve the situation; endeavor to pave pupils with colds excluded from school; study absented on the to colds in school as a whole; check frequently during winter nonths.

EXTERNIKS

Winslow and Hally. New Healthy Living, Book 11. Charles E. Merrill Company, New York. 1929. Chapters 7, 9.

Armana, New York, 1929; Chapter 4.

BURKARD, CHAMBERS and MARONEY. Personal and Public Health. Lyons and Carnaban, New York. 1930. Chapters 7, 9, 10.

GREGO and ROWELL. Health Studies -- Personal Health. World Book Company, Yonkers-on-Hudson, New York. 1932. Chapter 11.

WHEAT and FUZEATRICK, Everyday Problems in Health, American Book Company, New York, 1933. Problems 14-18.

IV. Stimulants and Narcotics

This unit is so important that it is suggested that three one bour or six half-hour periods be devoted to it in each of the two years. Facts and scientific evidence should be given first consideration. Avoid arousing curiosity that may lead to testing effects of stimulants and narcotics. Appeal to pupils' desire for fittess in sports, efficiency in play or work, vigorous health and high character qualities.

EVIDENCES OF PUPIL GROWTH

Habits of Skills

Uses no tea or coffee; does not use tobacco in any form; avoids the use of alcoholic beverages; avoids the use of stimulants in any form when fatigued; does not use drugs for any purpose except when prescribed by reputable physician; avoids the use of putent medicines except when prescribed by reputable physician; seeks pleasure in wholesome and healthful forms; avoids the companionship of those who use alcohol or other narcoties; obeys the law in regard to alcohol and drugs.

ATTITUDES

Appreciates personal responsibility to himself, to his family and to society for refraining from the use of alcoholic bey and drugs; desires to avoid smoking until he has attained.

- 61 Creates a craving for alcohol (a habit-forming narcotic).
- (5) Effects on society
 - (a) Earning capacity of individual diminished.
 - (b) Lowers efficiency in school of accumulation.
 - (e) Responsible for much spalarping a poverty, come,
 - (d) Safety hazard Rules for motorists, railroads, air pilots, etc...
 - (e) Effects on future generations.
- (6) Current problems
 - (a) Scientific investigations of the effects of alcohol.
 - (b) Alcohol and athletics.
 - (c) The Eighteenth Amendment
 - 11 Why it was passed.
 - 2º Responsibilities of a good offized
 - 31 Need for cooperation.
 - d) Education of the public.
 - (e) Financial aspects of the alcohol question.

f. Drugs

- (1) Sources
 - (a) Opium-from certain species of poppy,
 - (b) Morphine-a derivative of opium.
 - (c) Heroin-manufactured.
 - (d) Coraine-from leaves of coca plant and coal-tar products.
- (2) Usage
 - (a) Medicine-used with care because of dangers of forming habit.
 - (b) By drug addicts.
- (3) Effects on individual
 - (a) Habit becomes so strong individual will do anything to satisfy his eraving.
 - (b) Changes character-lose self-respect, honor, ambition. May lie, steat, or commit crime to obtain drug.
 - . (c) Loss of health.
 - (d) Drain on finances.
 - (e) Difficulties in breaking the habit and curing the individual.
- (4) Social effects
 - (a) Many crimes committed by users.
 - (b) Loss of social responsibility.
 - (c) Responsible for much poverty and unhappiness in families.

- (5) Current problems
 - (a) The smuggling of narcotics into this country; draw rings.
 - (b) Hospital care of drug addiets.
 - (c) lengting young burs and girls
 - (d) Legislation.
 - tel The prevalence of the patent medicine habit
 - 1 Harmful drugs used as ingredients.
 - 2 Dangers of use without prescription of a physician.

Suggested Activities and Procedures

- 1. Committees report on the studies of experiments and observations on the effects of smoking and alcohol on scholarship and athletics.
- 2 Compare the action of food and alcohol in the body to show why alcohol should not be classed as a food.
- Demonstrate how tea and coffee should be prepared to minimize their harmful effects.
- 4. Pertinent questions for discussion: Why can your father indulge in smoking in moderation without apparent harm! Why does a boy who smokes get "winded" easily in athletics! What are the arguments for and against girls' smoking.
- 5. Committees make a study of what national organizations are doing to control (1) the use of alcohol. (2) the use of narcotics

TUXTBOOKS

- Winslow and Hattn. New Healthy Living, Book 14. Charles E. Merrill Company, New York, 1929. Charlet 15.
- Andress and Brown. Science and the Way to Health. Ginn and Company, New York. 1929. Chapter 20.
- BURKARD, CHAMBERS and MARONEY. Personal and Public Health. Lyons and Carnahan, New Yor. 1930. Chapter 17.
- GREGG and ROWELL. Health Studies-Personal Health. World Book Company, Yonkers-on-Hudson, New York. 1932. Chapter 9.
- WHEAT and FITZPATRICK. Everyday Problems in Health. American Book Company, New York. 1933. Problem 20.

V. Physical Activity and Posture

The material on physical activity presents the physiological basis for such activity. This information should be most helpful to the teacher in the selection of the right type of exercise for various age groups.

Posture has been presented from the positive viewpoint 4 the emphasis has been placed upon normal rather than abnormal ture. Much can be accomplished in securing good posture through a ring

UNIT TWELVE-ALCOHOL, STIMULANTS, AND NARCOTICS

Coordinate with the unit on Ascehol, Stimulants, and Marcoxics for the senior high-school.

1. Desired Outcomes

A. Practices:

- 1. Refrains from using alcoholic beverages so as to keep in the best mental and physical condition.
- 2. Does not use tobacch in any form in order to get the best possible efficiency of the body and mind.
- 3. Avoids the use of habit forming drings which are in-

B. Attitudes:

- Obtains the attitude that it is one's duty to keep the body in the best mental and physical condition by refraining from the use of all habit-forming drugs.
- 2. To develop an attitude of inquiry regarding common beliefs about health in relation to narcotics and drugs.

C. Knowledges:

- To acquire adequate information about the habit-forming drugs and to learn the harmful effects upon one's body and mind in order to make a better and more healthful individual.
- 2. To develop, a realization that drugs do not solve the cause of aches and pains in the body.

II. Suggested Teaching Content

A. Definitions:

- 1. Narcotics.
- 2. Stimulants.

B. Types:

- Narcotics—alcohol, tobacco, marihuana, morphine.
 Alcohol—Source, nature, and actions.
- 2. Stimulants-coffce, tea, etc.

C. Alcohol:

- 1. Physical effects.
 - Reaction time dulled.
 - b. Narrows, shortens, and results in double vision.
 - e. Hinders skill and speed of movement.
 - d. Produces strain on the body and reduces efficiency.

Course of Study

Health Education

for

Secondary Schools



Bulletin 313 1944

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF PUBLIC INSTRUCTION
HARRISBURG





ok Little

Dr. Leroy E. Burney

Report and Reply ancer

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exith organ

In the light of these chimes s clear that there is an reasing and consistent body revidence that expession digrette smoking is one of the a stative factors in lung can-

New York

Belationship Found

ie study group, appraising gniesn independent studies. т.оге frequen nong olgarette smokers than mong non-smakers, and there a direct relationents between to incidence of link cancer ad the amount smoked. This is not not was reinforced by the for Tecent report to the A

a: excessive smok raceds one se المانا حدث والأ e services

d that more to determine of any statistical association of any between small d heart roup reis no convincing **b**eevidence that smokto date to indicate that smok-log per se in anomalage causa-tive factors in heart disease. tive factors in neary disease.

Although the meaning by Drs. pollution and other factors that Hammond and Horn since prolisiso may be the cause of lung vided additional dat on this cancer in man.

Subject the cause for man.

The meaning more statistical and biological and significance of any statistical and biological and significance of any statistical and subject to the state of the state o data is needed to establish a leaf association between smoking definite position between smoking this mating heart disease. ter

Statemen

The statement issued today by the Surgeon General adds nothing new to what has been known about the cause of lung cancer. It reflects the opinions some statisticians and the relatively few experimental scientists who have actively charged that eigarette smok-ing is a cause of lung cancer.

No new evidence has been produced since the Scientific Advisory Board to the Tobasco Industry Research Committee last stated its position on this question on May 1, 1957. At that time, I said that although anyone has the right to state an opinion on cancer causa-"the Scientific Advisory Board questions the existence of sufficient definitive evi-dence to establish a simple cause-and-effect explanation of the complex problem of lung cancer.

That is most definitely our position today.

Continued From Page 1

sponsible for health education.

Dr. Burney asked the state health officers and the American Medical Association to con- Another work mentioned was Olha hostess—(2)

Olha hostess—(2)

Olha hostess—(2)

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United States reports to local Experimental Pathology at the health officers, medical societies University of Texas Medical Pay Forest host—(4)

Branch Dr. Rigdon wrote: States A. M.—Captain Kangaros: with Bob Keesham-(2)

with Bob Keesham-(2)

States A. M.—Captain Kangaros: with Bob Keesham-(2) Dr. Burney asked the state

with heart disease.

cause cancer

To ascertain the role of air

Five Studies Cited

an attack involved—it was just heat exhaustion. The doctors say the said, have produced his condition is very satisfactory. He'll be in the hospital for two or three days of rest—if the similar to those that take place in the genesis of cancer had been observed in the lungs of heavy smokers.

Dr. Little said that the Surgeon General's statement, had added nothing new to cancer than deded nothing new to cancer the consecution of the respectively of the relatively few experimental scientists who have gained consciousness in a few at the Cusard Lange of the cause of luccancer."

Statement is statement, had added nothing new to cancer the living room, where he respectively charged that cigarette surgested to the living room, where he respectively charged that cigarette surgested to the living room, where he respectively charged that cigarette surgested to the living room, where he respectively charged that cigarette surgested to the living room, where he respectively charged that cigarette surgested to the living room, where he respectively charged that cigarette surgested to the living room, where he respectively charged that cigarette surgested to the living room, where he respectively charged that cigarette surgested to the living room, where he respectively charged that cigarette surgested to the living room, where he respectively charged that cigarette surgested to the living room, where he respectively charged that cigarette surgested to the living room, where he respectively charged that cigarette surgested to the living room, where he respectively charged that cigarette surgested to the living room, where he respectively charged that cigarette surgested to the living room, where he respectively charged that cigarette surgested to the living room, where he respectively charged that cigarette surgested to the living room, where he respectively charged that cigarette surgested to the living room, where he respectively charged that the surgested to the living room, where he respectively char

cancer.

the Surgeon General's own statement makes clear that the statement makes clear that the statement of the sta

U. S. LINKS CANCER recedily published book, "Science Looks at Smoking," by Dr. Harry B. N. Greene, chairman of Harry B. N. Greene, chairman of the Department of Pathology at the Tale University School of Medicine. Dr. Greene said his experiments with tobacco tar and embryonic human its sue had established no Ausal relations A. M.—Shariland; Entertainment for with Shari Lawis—(4).

inder distributing copies of the an article by Dr. E. H. Highor and the construction of the Laboratory of United States reports to local Experimental Pathology at the End officers, medical societies University of Texas Medical Pay Fortest, host—[4].

Recent Studies Cited In Branch. Dr. Rigdon wrote:

"A demonstration of carcinogen for the skin of in cigarette tars for the skin of in cigarette tars for the skin of in cigarette tars for the skin of in cigarette tars for the skin of in cigarette tars for the skin of in cigarette tars for the skin of in cigarette tars for the skin of in cigarette tars for the skin of in cigarette tars for the skin of in cigarette tars for the skin of in cigarette tars for the skin of in cigarette tars for the skin of in cigarette tars for the skin of in cigarette tars for the skin of in cigarette tars for the skin of in cigarette tars for the skin of in Fountain"—[8] in cigarette tars for the skin of in cigarette consumption of man."

Dr. Milton Rosenblatt and Dr. Milton Rosenblatt and in cigarette consumption of the Lung." published in the published in say in cigarette consumption of the largette public dence of lung cancer and the institute of lung cancer has increased in published for in British Columbia—

Too Far? —Samuel Columbia—

Too Far? —Samuel W. Lang. Chart increased in consumption of tobacco."

The American Medical Associtations between amoking and deaths from lung cancer has increase in respiration. Uniternative cancer in consumption of tobacco."

The American Medical Associtations between amoking and deaths from the consumption of tobacco."

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agus and from gastric ulcers. It tory cancer deaths from 1930 to also raised the question of a link 1933 "reflects merely the growth with heart disease. In his atstement today Dr a considerable part of the re-Birney recommended further revearch; estearch: agnosis and more complete case 9To identify, isolate, and try finding. *** Data are not available to show how much of it to eliminate the factors in exces.

sive cigarette amoking that can the effect of specific factors."

SENATOR GREEN FAINTS

Enters Naval Hospital After Collapse at Pakistani Fets

and significance of any statistical association between smoking:

And heart disease.

This research would form a Democrat of Rhode Island, enbasis for a possible future tered Bethesda Naval Hospital ("cause-and-effect" pronounce-tonight for a rest after he had is ment by the Public Health collapsed at an embassy party. Service.

Dr. Burney stated that while the evidence suggesting cigarette smoking as a cause of cancer was largely epidemiological some laboratory studies on animals had provided contributory information.

Five Studies Cited

At least five independent istudies, he said, have produced.

N TELEVI

\$-19:30 A. M.-Cartoon Feativalmits

P. Morano, reco. — (2):

-(2):

-(2):

5-Comedy Party: Children's en:

Ben Blue, guest host—(2):

3-3-The Buccaneen; Blood Will

Bobert Shaw—(2):

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July 13, 1957, <u>1:7</u> BEST IMAGE





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SHCHEV FIRM

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Catesmen long Mostow's popular the key to we Eumpe The made c added Germany ents he had r

Chupacity" and "Е уроспау n Congressional Democrats.

With a few appropriations bills still pending in Congress. and agency, officials pleading that they not be cut, the letter, Continued on Page 15. Celumn 5 mghts c." seemed to put the Administration in the position of asking for more than it intended to use.

In theory, the directive might! mean cutting \$2,009,000,000 to \$3,000,000,000 from the spending that is likely to occur this year if present trends continue. But no such dramatic results are expected.

Vete Is On Appropriations

Congress does not wote on the President's spending estimate. but on his appropriations requests. Appropriations for any given year provide some funds for spending in that year, and authority to obligate or commit the Government to expenditures in future years.

Speaker Sam Rayburn, Democrat of Texas, said he did not know what kind of mental WASHINGTON July 12-ine pour that Service took the wholly distasted to the South gyrations, were invoked in Public Health Service took the wholly distasted to the South gyrations, were invoked in Official position today that But there still was no certain a distribution's telling the control of the position today that But there still was no certain a distribution to the mental that the position today that But there still was no certain the position today that But there is no certain to the position today that But there is no certain the position to the positio S. Kirushcher's be cut and telling agencies to sistem evidence" that "exies- ure trelf opuid to held Too resy gress that the budget

Representative Clafente Casr that no changes In non, Democrat of Ma e chairman of the House Appros an immediate liter priations Committee, g he Soviet Community of Jearings "because t Secretary raised the no basis on which to

a position industrial of the year,"

ather no consistons Thee Appropriations subcoming Germany militers, againg along to the grage structure and militers, consists to the grage structure.

plartin in Challenge

unditation are two Presumably the hearing tings, he said as be resumed shortly were being the woo link the we train leaves and the annual section of the samuel. tration rates some understandluig on the situation.

> Representative Martin Jr. of Massach torted to another Miller challenger by asking, side are you on? - in lecomorny or opposed.

"us Committee, defended the letter cancer" many suits Ascon, and said it was designed "to tions by Congress."

chestay M. Molotov order was necessary to keep the smoking and living manoer to the mion, and charged on the roll of foreign Ministry Coverbment from going beyond basis of ministern stadies in of impappropriating \$1.9%. the of the community the limits set by Congress, rather trial Commutee, the Ecopomy letters from the The British Government direct on two counts of man Toringh Minister Budget Eureau to the directors brought these waws to the at-propriating a total of \$4.5% of Federal against and now tention of Beat authors.

WA scotton samed at contreining discounts on Giverhment-inflired mortrages, Du-

Health Service Cites Data-Proof Is Still Lacking

Surgeon General's statement, industry's reply, Page 35.

By BESS FURMAN Reserved to The New York Time&

cancer'

ed nouncement in 1954 that cited Pitture.

conj. Leroy & Burney, the Surgeon british debate. A two intros-conj. General, simultaneously began a majorniy of the entire members attorneyide informational cam, ship or elety-four, is required con-paign on the subject. He sent to revise closure. hear- to the public health officers of to invoke closur. structor mind the hear to the public health officers of ings when Administration was all states and to the American powers are resemble menual medical Association comes of ink disarmament with collation of their budget requests his announcement and of two weight to prospects of currently other budgets and the prospects of currently other budgets and the presidential budgets and the presidential budgets and the presidential budgets and the presidential budgets and the presidential budgets and the presidential budgets and the presidential budgets are also because the presidential budgets and the presidential budgets are also because the presidential budgets and the presidential budgets are also because the presidential budgets and the presidential budgets are also because the presidential budgets and the presidential budgets are also because the presidential budge recent accentific reports in the Stone to the Southern point of United States that showed "ex- new, if not outright compristremely high' association be mise, efter a breakfast condertween heavy smoking and ling Continued on Page & Column 3 cancer.

ment was challenged .mme diately by Dr. Clarence Cross House Republican leader, to Little chairman of the Scientific Advisory Board to the Tobacco Industry Research Committee Profit on Union Autos Laid He said that three years of ret to Teamster Head and Son search by his group that pro-Representative John Taber of duced no evidence that cigarette upstate New York, ranking Resumoking or other tobacco use publican on the Appropriations contributes to the origin of ling

(seep spending under control and Burney followed a similar move charges. They were accused of to keep it within the appropriation taken recently by the Ministry selling Catillars named by the His statement spotlighted the particular of Health in Entain. The Ent- Transfers Twon and princing chestary M. Molotor order was necessary to keep the smoking and long manner on the miner. estag contract

of Federal agencies are not new, tention of focal authorities re-

THE REAL PROPERTY.

WASHINGTON, July 17-7% Southern importation intaces a tacticulireintal to lay as the densare unanimously agreed to the counts arise at times, such as part Tuesday on a motion to real sup the Administration's coll

> The Senate has been detained since Manuay merely the question of whether the moving should 🗰 made the after tily ponting on ares.

This boughts contact pre-ba-AD prientary misse of calling or a bill was assured of automs by todays development, bets so a majority of Benaturalia wroma to favor passage of the industry Group Contends inghts nives over. The rest question has been whether 26 miers. coponents would attended delay or block a vote at this suage by prolonged debate.

Amendments Allowed

The agreement also a tured the Senate of an opportunity, once the bill is officially before it, to alter the text, possibly to a ald not there was "increasing and con- tainty that a vote on the most sive eigarette amoking is one of sibility that Southerners would the causative factors of ring engage in a filbuster—the-tacur-cancer" of dilatory debate to prevent to-This changed an offical pro- mon-remained very much in the

Some signa undicated that a the Soviet Community off fractings "because the feet speciation between the two, but compromise might be fourt and a Secretary raised the no basis on which togethermine left been the question of cause. In this secretary raised the no basis on which togethermine left been the question of cause. In this secretary raised the no basis on which togethermine left been the question of cause. In this secretary raised the no basis on which togethermine left been the question of cause. In this secretary raised the normal secretary raised Leroy E. Burney, the Surgeon sure the Senate procedure for

Senathe William F. Rr. A. &

Statement Is Challenged BROKS INDICTED IN SALE OF CARS

ar The United First

SEATTLE, July 12 - Dave Beck and his son, Dave Jr., were The action of Surgeon General Educted today on grand larreny

> places those His son was m-Continuent dicted on two counts of mass-

They were released about \$3.6% bond each after they so-Page 2. Column 5 | Continued on Page 18. Column 1 | Continued on Page 25. Column 4 | pearer; at the countries 12. 22tan y

Grand Jury Lavertiga un

The King County Street Tall that improved the bearingmanns has been investigating Smarthal affairs of the Teamsters I'm m is the Seattle area. The interna-

TO ME STATE OF



Khan's Son, 20, New Aga Khan

A. L.

Harvard Man. n as Father

Cigarettes continued

by volunteer workers of the Society. Volunteers in selected counties of ten different states will record the smoking

and medical histories of ten men each.

The follow-up method of study of the American Cancer Society should overcome some of the deficiencies in pregious methods of investigation. But it will be several years before mawers will be forthcoming. If it should be proved hat heavy tobacco smoking (particularly of eigerettes) many years is a factor in the cause of cancer of the fling, it will then be up to the smoker to determine if he take his chances in acquiring center of the lung in exchange for the comforts, pleasures, and stimulant or

redative effects that emoking provides. Car-driving on redative effects that emoking provides. Car-driving on a state of redative effects is the leading cause of accidental death and the set most of us take the robust latence on the body in physical performance and endurance in a state contests. About all that has ever been shown is that disceptibility to the effects of the contests and and and the set of the set o

ional libout impairment of athletic proficiency, others have an interest poor performance article inching for some time. Heavy moking of pipes. commissional cigarettes is known to cause iritation of the mouth, and tongue, often of such in-

cause iritation of the mouth and tongue, often of such intensities to lead to the development of localized areas of thickening or "leukoplakia" of the mouth. This thickening is difficultied a possibility pre-cancerous condition. With respect to susceed in the pre-cancerous stage, it will usually disappear Bumoking is stopped.

With respect to susceed communications as a factor in material stage of the storage or intestines, a recent critical study was done by Interest errors and Ehrenfeld of Say York University, Colleges Medicine. A careful review of published work has a moved them that "tobacco smalling is not . . . a factor for the squastion of peptic ulconference of the stomach is safe the small intestine. But cent either of the stomach panel the small intestine. But the widence that "amoking may result in functional disamblences which may simulation and disease or aggratale..... functional or organic disease." It is particularly the person with an active personner who is likely to be much years satisfactory than much the patient who gives up smaking entirely.

(arr), tobacco amaking may cause a disorder of the

eye meribed as "retrobulbar neuritis." associated with

varifing degrees of impairment of vision.

minimis of the incontestable toxic and irritating effects integer amoking, and in view of the possible connection befreen heavy cigarette smoking and cancer of the lung, it may properly be asked whether the pleasures and comforts of smoking are worth the sandle. To denounce the habitual smoker as a weak-willed, degenerate addiet digging his own grave is hardly a reasonable answer to a problem involving millions of normal, well-adjusted persons who are habitual smokers. Although craving is exhibited by heavy smokers when tobacco is removed. there is no evidence that true physical addiction occurs, as

with opium drugs. Nor is there evidence that profound psychological disturbances occur when tobacco is withdrawn. According to Professor William T. Salter of the Yale University School of Medicine, "It would seem . . . that tobacco is as habit forming as breakfast coffee, chewing gum, lollipops and several other forms of habitual indulgence."

The issue is not whether tobseco is habit forming-since everyone is agreed that it is. The issue is whether the tobacco habit is so harmful as to require a serious reduction in smoking or even complete abstinence. This issue is not resolved by pointing to Raymond Pearl's famous report of 15 years ago, which showed that beyond the age of 30 only 63% of habitual heavy smokers could expect to survive to the age of 50, as against 81% of abstainers, since it was pol at all made clear in that report whether the shortened life expectancy was due to tobacco or to some nervous condition which predisposed toward the use of tobacco.

However the habit is acquired, smoking is an activity that serves to reduce the inner nervous tensions and strains resulting from man's exposure to the stresses and responsibilities imposed by society. It helps him to perform more effectively in his work and personal relationships. It would seem to be, at the least, a less harmful method of adaptation than alcohol addiction or even, in many cases, overeating. Many doctors have noted that when a patient successfully gives up tobacco, his appetite increases and he puts on weight. But it is questionable that overeating (and its consequence, overweight) is a more desirable habit than smoking; certainly it is not for some persons with beart or vascular disorders.

To summarize

There are instances, as in Buerger's Disease and similar affections, where the risks of smoking are so serious that despite the satisfaction provided by smoking, it must be sacrificed to avoid loss of limb, sight, or life. In leukoplakis of the mouth or tongue brought on by smoking, the probability of cancer development is serious enough to demand a similar probibition. In ulcer of the stamach and some other aliments, although nicotine can be an aggrevating influence, some physicians, nevertheless, permit moderate use of low-nicotine cigarettes on the ground that any physical irritation is offset by the analgesia smoking may offer against life's problems.

As for cancer of the lung, while it has not been conclusively proved that heavy smoking is a major factor in its rising incidence, the evidence for such an indictment is very suggestive. Until proof is forthcoming, it is obvious that those who can should cut their smoking to what is considered moderate levels—certainly not more than a pack a day. Those who cannot should understand that they are taking a risk of unknown dimensions, and should get an X ray of their lungs every six months.

For those who wish to overcome the tobacco habit, doctors often prescribe strong astringent mouth washes or rinees. Proprietary tablets or losenges containing similar astringents, as well as nameating drugs, are also sold. It has never been shown that such preparations are an effective long-range curb on the smoking habit.

74 FEBRUARY 1953

Dr. Crane

ny (monusi nf any germa m atomach, upant

"Timmy worshipped a certain famous athlete who

was his hero. Timmy had pasted pictures of this young man all over his room.

"But today Timmy saw his hero pictured with a cigaret in his hand and endorsing a certain brand of tobacco.

cerain brand of tobacco.
Well, Timmy's Boy Scout-leader is a young physician the bas warned the boys of the dangers of tobacco.

"So Timmy was creatfallen.
hero now was shown to
have feet of clay. And petuse Timmy has had ten so
much about his hero. Timmy
mentated to go to Spout meting tomorrow night.
He says he can't face his

Moral Responsibility

Young people -- both boys giris—undergo of helo worship as they enter teens.

This "hereatinger" a sometimes so strong that it causes youngsters to skimp the ch hey in order to buy a ticket to a performan

Smetimes these inces athletes. Others may be mo ie stars or musiciana, raannouncers and MC's in

n clubs sprout up inroughout the couper and the teen age admirera often y over into a

everybody who "fronts" perore the public should relize that a grave moral rerooksibility devolves upon machoulders of such heroes herolnes of modern

Regardless of the hero's personal appetites, he should recognize his psychological obligation to his "fans" and not sell them out or betray them in Judas fashion.

Irene Dunne in the movies and President Eisenhower in the White House are two outstanding examples of splen-

did moral leaderable.
They have diligently tried to keep faith with teen-age America and set a strong positive. example regarding

http://legacy.library.wwwf.ed=0000/2000/a00/pwit

tection from my childreb?" a mother asked us the other

day.
"It certainly is safe." we assured her, "There are, it's true, some ages when a certain may seem a

PITTSBURGH <u>POST-GAZETTE</u> 5/2/5/

child's affection may seem a I kind of Child Guidance advice

To Your Good Health

-by Joseph G. Molner, M.D.-

THE VERY famous Dr. Alton Ochsner was in my city not long ago, and it occurred to me that one of his remarks might be of considerable interest to readers—especially since I have had quite a number of inquiries about how to stop smoking.

There isn't any royal road to that, of course. It is something that anybody CAN do if he wants to do it. It isn't necessarily easy, but I don't think it is up to a doctor, me or any other one, to find an easy way to do everything.

However, it was Dr. Ochsner's comment about addiction to tobacco that struck me. The addiction itself—the physical desire for nicotine will last about two weeks. After that, it is merely the habit that persists. The habit of lighting a eigaret when you don't happen to be deing anything eise with your hands. The habit of lighting up as you att reading, or after a meal, or even while you are on the telephone.

I've discussed this matter of habit in the column before, and that is the hardest part about giving up tobacco, I believe.

It may well he of interest to a lot of readers to know about that two-week persistence of the addiction, which Dr. Ochsner mentioned. In other words, if you are making a serious: effort to give up smoking for one reason or another, at least give yourself more than a two-week try. After that first two weeks, remember that all you are strugglin with is a simple (if ingrained) habit,

Incidentally, it is my opinion that the intensity of this addiction to alcotine will vary. A good many people, even many who have been heavy smokers for a long time, may find that the addic-

tion is not a difficult thing to cope with.

The real problem is elmply devoling enough attention to break/that habit of lighting up. But at least get past the first-two weeks before your give up your effort.

"Dear Dr. Molner: I have been seeing spots in my field of vision for about 10 years now, My vision is 20-20, but I am often annoyed by these spots, or vague patterns, which I notice particularly when I roll my eyes. What can I do about this condition?—E. O. R."

Just offinand, I'd say you might go to a doctor and have a competent eye examination. There are numerous causes of spots, ranging from local eye disorders to generalized disturbances like a chronic infection, diabetes, nephritis and the like.

Dear Dr. Moiner: I have been taking liver shots for pernicious anemia, but I had much rather take vitaming. What would you suggest?"

I'm guessing that you've read or heard about the use of Vitamin B12, as well as, liver extract, for pernicious anemia. My best suggestion is that you should remember that this disease, until about 30 years ago when the use of liver was discovered, was always fattil. Now it isn't. So follow your doctor's directions. In the second place, the B12 is given by injection anyway!

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convictor THINY LUCIE

OAKLAND, Cal., June 27 UP - Embarrassing .noment cheaper for any bank:

The Goncord Branch of the Crocker-Anglo Bank, noticing a shortage of \$27,500, hurriedly asked its garbage col-lector to check his load. He did and came up with a deposit bag containing \$27,500 yesterday.

How did it happen? e're just not talking said he about this," te facts Laurence M. Boehmen.

The Soviet note-hi West German Wilhelm Hass by Son eign Minister Andrei (

setting itself up as an arbiter in the London negotiations.

Recent statements by Soviet leaders have disclosed they see no prospect of German unification at this time. Niidta Khrushchev, the Russian Communist Party chief, has said the Russians have no desire said manager to talk with the other powers on unification.

PITTSBURGH POST-GAZETTE

· line 28. 1757 B. 1

-declared West Germany was rually leaped upon the co today.

The 50-mile-wide eye pasc over Orange in the famili pattern: hurricano winds, f lowed by dead calm, then I newed severe blow.

At least nine men drown: when the 78-ton fishing veer Keturah struck an offshor drilling platform near Galver ton Bay last night during the storm. The Warren Fish Conpany, owner of the boat, has the names of eight known crewmen but still sought the name of the ninth man the captain had algued on before the ship left Pensacola, An other man drowned at Galver ton in a strong undertow.

(Continued on Page 6, Col: 3)

Mancer-Tobacco 'Link' cognized by Britain

Warning declisks Involved in Smoking Given Nation in House of Commons

Tee British soverment said It had been warned that an increase lung **u**ncer was sargely caused by macking tobacco-pacticularly

charte. Morgan parliamentary secretary to the min-ister of health, told the House of Commons:

In Medical Research Council have advised govable iterpretation of the very great increase in deaths from lung tancer in males during the past 25 years is that a causing the disease, but a relatively minor one.

The report said persons who amorphise tobacco, particularly din Jaflying tobacco, particularly give up smoking, even in the causing the disease, but a relatively minor one.

The report said persons who give up smoking, even in the carty 40s, may reduce the likethe air Council is an independent body financed by the government.

Morgan said the government felt this "latest authoritative opinion" should be "brought effectively to public notice so that everyone may know the risks involved in smoking."

The Research Council annual report said evidence suggested that one in every eight heavy, illelong cigaret smokers may die of lung cancer, while the number of nonsmokers likely to die of the disease is about one in 300.

 It conceded that atmospheric poliution played some part in

July 4 Delivery A P-G Exclusive!

News never stops even on Uncle Sam's birthday. And the Posts Gazette is the only local paper bringing you every latest happening even of July 4.

Don't take a holiday from reading the mos complete and enjoyable news, and features. An range now locking the Pie Post - Gasette delivered on July 41% Just call AT lentia 1-6100-reday fo

51973

fized by the local tax act to 1% per cent of the total assessed taxing district.

Blast of Diablo Reset for Toda

ATOMIC TEST SITE July 12 (A) - Firing of The governor signed into Diablo—the atomic device that law a bill to authorize mulfailed to explode June 28 henicipalities to increase the cause of a power failure—has aggregate of all taxes author been put off at least until tomorrow morning.

It was scheduled to be exvaluation of real estate in the ploded from a balloon 500 feet

above the desert today.

■ More Evidence Cancer Caused by Smoking

Surgeon General Cites Recent Studies— In Public Health Service Statement

WASHINGTON 19 12 (P) what has been known about — Citing recent sudies, Sur. the cause of lung cancer." geon General Leroy E. Burney maicreasing said today the evidence that excessive ciga-ret aftering the of the m lacio in lung

Burney sal Public <u>lavors</u> more research to identify and "try to eliminate" these factors. He seid-#It-is-cles Minat heavy and -projonged cirarét smoking is not the only cause of lung cancer."

In New York Clatence C. Little, chairman of the aci- the American Cancer Society. tific advisory to the and the American mean as-tobacco industry research come sociation. This group's find-actate ings were made public last adds nothing new to

The surgeon general's statement was the first health service pronouncement on the some evidence of a statistical association · between cigaret smoking and lung cancer.

In today's statement, Dr. but cited results of studies, especially one by a special group organized jointly by the Public Health Service's Na-tional Cancer, Institute and National Heart Institute and the American Cancer Society. March.

PITTSBURGH POST-GAZETTE

13. 1957 By AZ

m i n i stration Monday at 8:30

p. m. Dr. Conant. Dr. Conant one of the nation's outstanding educators in the fine arts, will present the third of a series of free lectures sponsored by the Carnegie College of Fine Arts.

Viking Arrow Injures Actor

DINARD, France, July 12 Or Actor Tony Curtis', left eye was grazed by a Viking arrow during a movie scene today. It left him nursing a headache and a shiner...

Curtis ducked a split second before being struck. But the point of the arrow nicked him and the shaft grazed his eye.

question since the agency Curtis was not working in noted in 1954 that there was the scene, which depicts the storming of the English coast by 150 Vikings. The film is "The Vikings" and part of it is being shot at a castle-on Burney offered no new proof the French changel coast because a suitable castle couldn't be found-in-England,

U. S. Envoy Calls

MOSCOW, July 12 UP-United States Ambassador Liewellyn E. Thompson, Jr., search come sociation. This group's find paid his first courtesy call on ings were made public last Soviet Foreign Minister Andrei Gromyko today.

סככנ Jan. wal: la ir WAS

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THE MAIN LINE'S **OUTSTANDING** WEEKLY NEWSPAPER

MONTHLY IBY CARRIED

ing

ARDMORE, PA., THURSDAY, JANUARY 23, 1964

\$5.90 per year (Monigomery Co.)-\$6.00 per year (outside County) \$4.20 per year delivered by carrier

3n; At Same Level

Proposed Budget Gives Employes 4% Wage Boost

Hadine Township's tax rate Will be mechanical in 1964. The lowwide a Buard of Conero log Thursday unveilinterference is a Timestay timed. Once, high school students in all 1911, 1920 budget for the the Lower Merion system caught your and gave it preliminary ap smoking in school could count stration proval. It will receive a final on a three-day suspens ing and till after bring displayed for a Bin that was before were libstyles, temple to the township building eral attindes took hold and lowde "to and gree a public "realing."

lay. Me The real estate tax rate stays an outdoor area where pu pila ('b. 'ad 21 mills to to 1962. According could smake with impunity. When 1960 to Board President Rocco A. Od-Harriton High School opened while, the heart-hip entered the fire years ago a similar "smotto we pour with surplus of ing center" was designated there.

and for "With this surplus," he said echosibor unotice may be on the to 8.6 "no tre granting township em way out. The Lower Merion or rear, physics in overall increase of tour school board Monday night oror stript porcent in their radaries and wag dered the school administration nound in, with one or two adjustments to aduly the amoking situation

in OUD: The Mair percent ligure equals to report back to the board at the increase given by neighbor-like Feb. 17 meeting. IME Jamer Merion to its employes Only at Harriton New Why No Yaz Dree?

Utraffelo said he expected that smoking this year. When conhouse inight wonder why taxes struction work on an addition ed out the first rental be reclaimed for that project.

Radnor To Hold Legalized Student Smoking Merion Of Old Buck Inn

Hazards Prompt School Directors To Consider Ban

er Merion High School designated New, the day of the legalized

of certain salaries for people in with an eye toward eliminating the professional category." Samelall authorized smoking in the of the commissioners themselves high schools. Supt. of Schools will get a rule. Philip U. Koopman is expected

in the newly adopted ladget. Unly one of the two senior thigh achools permits attulent dury if there is a got underway at Lower Merion aplanation he point-light, the amoking area had to on the new township Presumably, however, it would ow under constructhave been restored when the



200 Turn Out For 2d Defense

19 Witnesses Urge, Rejection Of Plans For A Reslaurant

A farge - and vecal - manher of Old Buck Inn enthusiasts faced the Haverford Township Board of Adjustment Tuesday witht in a next-to-last-slifeh atitempt to save the 234-year-old landmark from the wrecking

Hot Shappes, Inc., which purchased the ion for \$200,000, is seeking a zoning variance which unula permit the corporation to build a restaurant on the site. The board has to days in which to reach a decision about the rooms variance

It is expected that, if the Board okays the variance. the case will be appealed in court. This week's hearing was a continuation of another a week iago which was devoted largely to the presentation of the flot Shoppes' case.

More than 200 persons opposed to the destruction of the ing and to the construction of the restaurant were on hard this time to protest the zoning lexception and to cheer on the 19 witnesses who here protestling.

Opponents . The four aur session was devoted larg n hearing those 1 to the zoning

http://legacy.library.ucsf.edu/tid/zrq07a09/pdfce: https://www.industrydocuments.ucsf.edu/docs/qtql0001

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4% Wage Boost Healther Township's lay cate

Will be unchanged in 1964.

The termelike's Beard of Com-"not to re- Whatteners last Thursday unveil- Once, high school students in the trade of a 41,302,076 budget for the the Lower Alerina system cought Year and gave it preliminary appreniting in school could count ning with the stein displayed for a But that was before

as oppuse in Bourd President Rucco A. (Id.: Harrison High School opened in the re-ortale, the township entered the five years are a similar "smok-James In \$19,100

tract for "With this structus," he said schooling smoker may be on the led. Lit "up are granting township em- way out. The Lower Merion the rear, player an merall increase at four school board Monday night orter striptionerent in their salaries and was dered the school administration

ad the commissioners themselves high schools. Supt. a india raise ·roup

the intruse given by neighbor, its Feb 17 meeting. ling lawer Merina to its employes Only at Harrison New in the newly adopted insignt. Only one of the two senior Why No Tax Drep?

surplies in explanation he point like, the smeking area had to ed att that 'Il the first rental be reclaimed for that project. payment on the new township Presumably, however, it would athen, is then, 121 the salary in project was completed. creme timed be accommodated; But Harriton continues to per-17) a full-lime park and recre-imit smoking in a specified outathen attende supervisor is being door area and will continue to bired, and (4) \$3000 more is be-ide so, school efficials indicated, the areareprished to the Radour at least until the February re-Pire t'u, then in 1963, and "a lit-port. the tister" to the Bryn Maur! The school board's renewed in-

The surplus compares with a sauched by the recent federal corryster ligure of only \$165.11 report stating officially that a year age. Breaking down the amoking is a health hazard. The corpits funds. Odoricio said \$12, report was submitted 12 days

Page Thirty-Face

Little Using a five service **School Directors** To Consider Ban

the No-mul given a public "resuling."

May, all: The rest estate tax rate stays!

A could at mills as in 1963. According toold smoke with impunity. When term year with surplus of ine center" was designated there.

Now, the day of the legalized around es, with one or two adjustments to study the smoking study on certain solaries for people in with an eye toward of singless to proper the professional extensive. Some all authorized smoking in the Philip U. Koopman is expected! The little percent ligure equals to report back to the hoard at

> high a chools permits student Untilish said he expected that smoking this year. When conwithe fillet wanter why taxes struction work on an addition cuttod by reduced if there is a got underway at Lower Merion He, now under constructhave been restored when the

lerest in student smoking was age to the Surgeon General of the U.S. by his Advisory Committee on Smoking and Health.

While doctors have indicated that the report told them nothing they didn't already know, it did add an official status to the eigenette smoker's woes.

School director Albert E. Bickell had that report in mind Monsted for Centreline in his brief talk day night when he told his fellow board members, "I don't believe we should support smuking

red on Page Thirty-Four

Schoolman Cuts



HUNGRY FOR BUSINESS... A saleswaman has to know her product, so girl scouts Linda Schwartz (left) of Troop 1172, Sally Daley (center) of Troop 332, and Page Burdick of Troop 217, all of Marberth, sample merchandise awaiting disposal during the annual Girl Scoot Cookie Sale, which opens temorrow, The sale will continue through Feb. 37 —(Bill Horris Staff Photo)

Women To Probe Rights Here

civil rights in the township as a Mrs. Whitman major 1964 project.

"This is more construc" than our telling other are the country it to cope their problems." one Imember remarked. Mrs. Martin J. White.

By a unanimous vote, morej "Only three times before has than 33 members of the Lower the national organization suggest-Merion League of Women Voted that we take direct action ers have agreed to investigate on a specific subject," explained

Committee.

The report was based on local Richard Toner Jr., 24, in a rail ord, said the housing surveys plus a Bryni Mawr graduate student's honors

Suspect Held In Suburban Saluat historical studies "

in Baltimore on a charge of rob- He called traffic In the area "There are many area groups bing the Philadelphia National a "serious hazard." The prop-The consensus at the group's engaged in civil rights problems Bank, branch in Ardmore Friday, juity, he said, was smore suitmembership meeting alonday now," she said, citing the local A lone college escaped from the lable for an apartment or office was that the league should study NAACP, the Fair Housing Coun-Suburban Square bank, at Mont-classification. mild take action on this problem cit of Delaware Valley, Subur Jonney Ave, and St. James Williams, when asked if an-within its own community, han Fair Bousing in Ardmore, Place, with \$1,700 in cash short other type of use such as a and American Friends' Service to before to pm. that day. parking lot Baltimore police arrested John would not a

PICTURE ON PAGE 2

Rejection Of Plans For A Restourant

A farm - and youl - numher of Old Buck his entitlesiasts laced the Haverford Township Board of Adjustment Tuesday night in a next-to-last-diten atlemmt to save the 234-year-old landmark from the wrecking *****

Hot Shouses, Inc., within purchargest the iner for \$200,000, is syking a zming vatiance which wealt permit the corneration to build a restaurant on the elle.

. The loansi has 45 days in which is reach a deviation about He toning variance

It is expected that. If the Board okays the variance, the lease will be annealed in court.

This week's bearing was a continuation of another a week iaco which was devoted largely In the presentation of the list Shoroes' case.

More than 200 persons opposed to the destruction of the ing and to the construction of the restaurant were on hand this time to protest the zoning execution and to cheer on the 19 witnesses who were protestire.

Opponents Ara Heard

The four - hour session was devoted largely to hearing those who were opposed to the zening chance.

The board did, however, hear one witness for that Shoppers. Charles E. Peterson, a consultant in the restoration of fadependence Mall, teld board memhers he seriously doubted that William Penn's son, Thomas, had a part in building the inn.

As the crowd screamed "Traitor!" Peterson west on to say that historical studies "out this

Leslie Williams, an authority on traffic engineering and city planeing presented m 10 - p a g v. report on the area at Lancaster. A Drexel Hill man is being held and Martin Aves, where the inn is located.

ace of business the same haz-... hours of onferation want. shorter than lor a restaopen seven

^luls Admit It

hami. Notice a point of his familiarity clust a -- as a lawver-with the legislafor one tire per-He also emphasized solving problems at . r Aler-Into hell er. And the place erel without resorting · ned alto fe' · nota-| 171

Altman

man at the just relief a Dema-1- parts Cathianad From Page Bac

state topt on Lauranter Piker. ... "Automosts acrealls."

. ... at arrayerts "

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ng slate and tederal action elegante (le calles annoch proces." He argued that "mod. Dr. Kump man cented which must be just

titus soul for extended for the it is a legislater in eleccommo and so continue taxmeliter ill majer in en-. More Hilbert to 48-. serve Lattice

hate position the said. Assresches

of the three to , or developed titl GIM! Monthgran

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the pike to a like tale

Smokina Continued From Page Dag

the state of the s

challenge it offers to the day dent who should shake 'Not Mealthy Practice'

aged some non-smoking stadents \$250,000 rites. te start smoking, he said. to start amoning, the sound in More and more—and especial. ly mor that this latest report has Continued From Page One been published by doctors - it

ardizing the health of our number and SIMM from additional stabiliseries the east end or the tools vision ulan tees

its lawyers have counted on this agained the daugers dressed in affire object there is 26 litture fact to allay residents tenes. the tederal reject its members More Funds for Police of Incide an attente; who That they have not fully say, were retucting to act in haste. represent an attended was evident at find learing of parential reaction to act in basic research of covered was evident at find learing of parential reaction. Largest item of expenditure to make with week's bearing on the hand one to a sudden edic banding all in- as usual, for police: \$313.636 police: \$313.636 police: \$313.636 police: \$313.636

Daniel Municial dr. president tested vigorously oranist the ets \$1,000

elequate the radies humost process. He arrived that "most by. Knopman evident on the new township building negative to immend mat, era planning concepts conform of that "not over the percent" of Meanwhile the township has and service nees along a high. "lighting up" elsewhere

The assecution argues also times, he said

that apartment, will pre A Paradox Noted

Mungali contended last week observed. "I'm not sure that Other are initial departmental same that commercialization of the stopping a studying area will expendite dos in the first that the schools \$40,300,

shiller and vital concern alumitican School in Switzerland; and a director at United Fund and the the cancer problem."

Explaining his interest in the local American Cancer Society. society. Richards said that "re- American Cancer Society funds during school hours on school search scientists have come so stimust inagrams of collection property. Personally I feel this very far in learning more and service in cancer nations and should be stopped." Bickell ex. more along caner and, I be research. At present \$1,174,351 plained that while a majurity lieve, whate they need now is a ic in effect in Philiadelphia and of authorized analog line ral (the ever the human dangement for textiff he design that the line of the

et a tise for will toe to The theritage finer men's ending to stoke [18] willow the property was to conducted a fit the SI million at its author little and may describe that \$750,000 will be see Counties during April which is cerest from April carmanen sie traditionally designated as 196 "I wunder if it hasn't encour heitation and memorials, and ree Control Month to let of Con

two weekend after supervisors. from gral Funds for Fire Units

income gral Funds for Fire Units

income grant from the non-ship

certain grant come \$50,000 topin the non-ship

certain grant gra

Investigate with he need \$4,000

Some St GIU is being allocated for

The discussion that ensued The commissioners' president \$1,800 said the land use plan the permeter of the tract ten made it evident that the school said the haard had "spent some Some specials of the house nicerture bound themselves the time in reviewing the new hode, ship's monetary needs to extend some service of Penn's. The buffer area would remain ing a genuine moral dilemma, et. Copies have been made availated to come from real estate has shall be street for over sented R-1, and R. Altman and While the board as a whole fee also at the lounding secretary's tes. Last year such times just abored SUL 247

jected to the placing of the Chew therefore, they postponed a final compared with \$200,000 last Under a separate sever collect year. Two policemen will be add- turn bradget. \$86,010 has been at tract in a so-called "planted de, verdict cd to the force, restoring it to located as Radior's some of the velopment" estegory. This would from background on the subject total of 43 mes, and one more cost of the Radion. Hereison is pase the was for commercializa-they turned to Sapt Kompman, crossing goard will be bared Marple Joint Sewer Addressly tion of the land, such "planned When the three-day mappingum With the tour percent oferward. The figure constitute 47 percent a manufactures of plan. the velopment takes in business, pulsey was in vegue for similars, pulsestander with reverse very respect to the \$183.000 none were business. a programment of bear proportional and aboutment need he said "many bosonic profits about action and transfer

> Davids Civie Association, each at emphasized that the school system of delt service conspared in at a special meeting of the hearing. "The residential term is within its legal rights if with \$130,100 a year ago Response commissioners. character of the area has al. it character again to run all struck, side for the increase is a \$25.

> is undestrable the step com students have been using the au budgeted \$13.08 for its diglocar mercialism which results from therized standing areas. But he department against \$128.730 in creatual development of cetal perknochlaged that some may be lost Some \$12.000 is hadgeted the reconstruction work on the Welsh Valley is their Sets It's too every matchines south flowerts Rid tridge over filten last its lites medically annear Creek. \$6,300 for Makin Rd the season to Rattenberra 4 bridge work and \$9,500 for the High School by a sent of 29 to vide more tax revenue than a Board mentions shout a half W Wayne Tre bridge rebuild. 24 it was hard tought an through store and apartments com-hour exploring the success at my The latter (an hindges are the game but latternous) thes hough Mrs. William A letters both over Little Darby Crock core in the fourth period con the

> > orks and recreation, had a points boost a smooth a hat of money on examp \$30,945.

ship, will get \$2 mm am trent

The nullage rate is lessed on

devote inflictive to Hurris. The Radius, Ishan, and St. colorentent of the rule But he A total of \$131,500 to appropri-tualest is expected about better while of the Parket is expected about better the second between the second betwee COMMISSION .

> Welsh Valley Five **Drops First Three**

71) by \$130,128 for Tony Russo of Webs Valley "county then lond might "cond-run" stop the cutdren grow smoking " refuse cut. on \$105.307 for 10, East light scorner bornes with the than dames to distinger nearly residential areas, along Matthew Remotern was a para-ministration, \$45,000 for persons, points, and Nave of Retention-r

branes, \$28,718 for The Welsh Videy J.V.'s buried

GUARA USED

USED CA

lancaster & Lee A

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Clearan

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1962 CONTÍNEN

A lie Sin One Owner Lo Marnon with Black and White Powers Plus Air Conditioning.

1962 CADILLAC

BEST

IMAGE

Sedan DeVille, 6 Window, Black Black & White Internet, (Inc t) Condition, Full Power Also I L'auxidemuine.

1961 CADILLAC

Serian DeVille 6 Window, One (Pour with Factors Air C Medium Gray with Matchir Must See To Appreciate.

1960 CONTINEN Mark V. Conv. Coc., One On New, Full Power, Princeton

Leather Interior, The Finest

1960 MERCURY Colony " 'k Station Wagon to Soft Green Finish ding Factors Air (l'owrt

Un A.S. . ce One. 195 ORD

http://legacy.library.ucsf.edu/tid/zrg07a@/pdfe: https://www.industrydocuments.ucsf.edu/docs/gtgl0001

anch of the flare is normal-

t Canting william our token Merion politics — to that a best interests of the that, in keeping with the law, lotal of girll and two or a fine flower struction. He tokenship will not be served by a the Loxer Merion schools have men will be added. Angel and Dill would hold a soning change to commercial." aways taught the harmful ct. Raise for Board Members Tony Russo of Welson Valler tong in the township this Only one of the seven town letts of tobacco. At the said.

1 Stuadinger replied The ale appl comes after we've dead the House seal

a got 40 days, starting dan til after the land use plan to the politions supporting sweeping new roung ard ant/bl/on.

. Brusser Candidacy

on Production Engineering way. Philladelphia, and active trenddlem affairs

Potomac PC Tops | ception and dinner at the se | Saturday, starting at 6 p.m. orge Malletmen

at Whyne.

was the third set in four oge for the Cadel ... to have tune a land a loxing : a venier of in

the nike to a like late.

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audibites effering the pri- case will likely be postpone and the partitions supporting for the township have been had smoked across the street owline is controlled as good ing law. The latter hearing has the his feelings about the inthing he controlled as good ing law. The latter hearing has the his feelings about the insolution in the supposed for one of now been postponed because of smoking. McGowin got agree—

In the park and recreation de [Cynwyd 42 to 27, 4]

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the objections.

B Allman is a quality department from Joseph E. Morris.

B Allman is a quality department from Joseph E. Morris.

B Allman is a quality department from Joseph E. Morris.

The data think of Golph Mills, how centrated until now on the New at Lower Merion and "not become all Theodox be would up." Vork metropolitals area its decing able to see for the smoke.

A nucline ration eight based evidently on the high in liad a similar experience in a as note chateman of the GOP come level of the area and the viris' restroom t must Merlin fur six months, proximity of the store site to Old Penalty Outmoded now vice president of Tele- the planned Mid-County Express- Dr. Koopman said the high

SCHOOL'S 15TH YEAR

by firmular amuniment dur. Former and present members have enforced it as vigilantly as the week that she planned of both the Bala-Cyonyd Junior they used to." With smoking perall every community in the high School faculty and the ex-missible elsewhere in the school A lightly in her hid for nom-secutive council of the Home and system, he indicated, the old School Association will celebrate three-day penalty is no longer the school's 25th year with a re-journidered appropriate. Although (ception and dinner at the school it is enforced for repeated of

ON TV SHOW

Dr. Morton Grosser, tormerly (whether to take strong action intheorem, find moving Pototheorem, find moving Potowas a featured guest on the CBS
television program "One of a large potentially had effects in a 12-8 victory over Valley in Milling Academy's malletto Milling Academy's maletto many bulger particle on Suntonia's Stanford University on a large potentially had effects in any attempt to outlaw smoking to milling Academy's malettornia's Stanford University on a large potentially had effects in any attempt to outlaw smoking to milling Academy's malettornia's Stanford University on a large potentially had effects in any attempt to outlaw smoking to milling Academy's malettornia's Stanford University on a large potentially had effects in any attempt to outlaw smoking to milling the potential of the stanford potential or the stanf on an industry match on Sun-heriting fellowship. He recently from E. A. Walther that the won the Stegner Award for his problem was too serious to postbook, "The Discovery of Nep-pone action.

Musicali contended has week observed. The aut sure that Other substantial departmental game off he decided in a week of that commercialization of the stopping a anothing area will expenditures will be \$130.428 for. Tony Busso of Weisa Valley by 11119 Montgomery County Chen land might "condemn" ston the children from smoking "refuse collection, \$100.507 for ad, but high science homers with its orman dames E. Stradinger nearby residential areas, along Matthew Weinstein saw a para-ministration, \$45,000 for pensions, points, and Nave of Rottenburse dox in the fact that the schools \$40,596 for parks and recreation had 9 points

onlinger and perfection to a like rate now in the fact that the seniors \$40.00 for parks and recreation, has a points of the mineral part of the professional Line and the professional Line are planner to the planner to the professional Line are planner to the professional Line are planner to the plann

a decided about the Senate ward includes the area in quest pressed convern about the answering \$1,500 already, the in of 38 to 10 Louis Small of Welstern and the senate from said be will oppose the perverse effects of any attempts betweening \$1,500 already, the in of 38 to 10 Louis Small of Welstern and the senate from said be will oppose the perverse effects of any attempts betweening \$1,500 already, the in of 38 to 10 Louis Small of Welstern and the senate from the senate for the ition.

A decision in the control [a] in more of the control [a] in more of the control [a] in the control [

ischool had indeed forbidden all ismaking since construction got lunderway, "but I don't think they fenders, a first offense is more likely to bring only a warning.

In the end the board debated

Tony Russo of Welsn Valley

remining those who don't work one make been done been done the school even when he ies this year will total \$10,500 flough. At one time the school even when he ies this year will total \$10,500 flough. At one time the school even when he ies this year will total \$10,500 flough. auring that period whether loss week against the liming of executing laster steering.

Township Secretary John C. Cynwyd. The high scorer of the heefs of the first land plan heart sponsibility to prohibit smoking. Whiteman will receive the game was Graham of Bala-Cynhelon.

Brugger Candidacy

Brugger Candidacy

The secretary from percent mercase, getting \$9, wyd with 18 points. High scorer of the control of the game was Graham of Bala-Cynhelon.

Brugger Candidacy

3 Welsh Valley AVA, best Bara In the park and recreation de-[Cynwyd 42 to 27, their record

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HONG KONG. JAPAN

request

he pleasure of your company on a twentyee-day World Tour commencing Friday,

Calour Park Station Wagon, I One Owner, Soil Green Fairs Power Including Factory Air On A Scarce One.

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1956 LINCOLN

Capri 2 Dr. Hardtop, Auto, Tr Steering, Power Brakes, Rac and Whitewall Ties, Very Go



Skirn over the Ice-t



sellings. Robert Man ortary; ording Mur-Knc∙ John

· Hay-

Lie laker

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ley

Jrray 8-3636

1. Macphan CAST OF CHARACTERS-Arti: players appearing in "The Best : MR WLINETIMES temorrew and Saturday at the At MR WLINETIMES ters of Rala-Cynwyd; Carl Fisse and Mrs. Mary Johnson of Penn W

NAMED FELLOW

Dr. Theodore A. Tristan

Bala-Cyawyd is among 40 rad

ingists to be made fellows of imerican College of Radiology FEB . 6, 1964

lother prizes will be awarded byl my. The art center will pro the awards.

ork must be delivered to the er on May 23 and 24. The inde & and go nogo liv title. prizes will

on. Non · members of the art

leenter will be charged \$1.50 as

SING ALONG WITH MICHLING ... And everyone did as the girl scouts of Gladwyne entertained their dads at a fatherdaughter banquet last night at the Harriton High School cafeteria. Rosemont, "Michling Miller," one of the several comic features of the two-hour entertainment, was actually Dolly Lambdin, Gladwyne Troop 1129, daughter of Mr. and Mrs. Charles Lambdin.

A substantial increase in re-clubs and other community or- an entry feequests for films, filmstrips gameations. They may be in- All types of art work will be printed material and exhibits lained by writing to the hap accepted, including water colpointing out the harmful effects ciation at 1529 DeKa. S. A. ors. oil praintings, photographs, of smoking on health has 20 ristown, or by calling the rate drawings and prints. corred in recent weeks, accord. The film, "Tobacco and the Further information may be ing to the Montgomery County Bungan Body", sums up the obtained by writing the art RSING MANOR Tuberculosis and allealth

cution. MANNER IS EXCELLENT" Dr. D. Alan Sar more, president. VENUE, WAYNE, PA. idemand for factua (.enter of Wayne Business Area)

interest stimulated by the Pub-smoking on the lungs and cirlie Health Service's report calatory system. "Smoking and Health," and to Printed material available to publication locally of a "fte groups or to interested individ-source Unit for Teachers on make include the besteles "Double Smoking and Health."

The following health materials able for schools, thurch groups, tion of articles on the smoking pital, flaverlord.

alive materials to the public latter, it describes the effects of TUSDITAL DEUITS

Applicants for an orientation as well as speakers, are avail. Before the Smoke a collect services at Haverford State Hos-

diseases in which smoking is an course, which will be offered Township holds an open meeting important causative factor-arelfrom 9 a.m. to noon on four suc-lat the Memorial Library, Wayne icessive Monday mornings.

Smoke" and "Teenagers, Water pital including the out-patient

ismoking a money and health is New volunteers will hear ad-teld in another exhibit. These dresses by Jack B. Kremens, Hord State Hospital: Mrs. Ber reports from permanent sub-comiles, Dr. Auron Smith and Mrs. mittees and the jeffineship group

ands includes the leaflets, "Don't course for new volunteers are Let Your Health Go Up In being interviewed by Mrs. Doris Smoke" and "Filter the Facts B. Bertles, director of volunteer Set By Fair Housing Unit

State fair-housing legislation followship; Cobaca membership; The personal interview is a will be discussed when the Fac pand. Mrs. Martin Stevens, pubbronchitis and emphysema-two requisite to the orientation Housing Commutee of Radnor Perty.

at a p.m. Wednesday.

Francis P Bonner field cerresentative of the Prousyiva na (Human Relations Commission,

nova will preside The ageada lwiff include a special report from members who attended last week's meeting of the Fair Ilons-MD., superintendent of Haver ling Workshop of Springfield plas

Buten Museum Begins | Grace Harrison, of the depart- Also on the accordance will be a ment of medical research; Dr. discussion of the work ham; Thomas W. Phillips Jr., assistant done on Villanova - community A course entitled "Conversa superintendent; Mrs. Eleanor S. anidone success, in much like

of Radnor Township was formed would 246 N. Bowman Ave., Merst Also, Fred E. Odhner, coor last tall by resolution within the

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Talk On Human Relations

Evidence that smokers risk Scheduled dates of the course earlier death than nonsmokers are Monday. Feb. 10. Feb. 17. and are more upt to get long Feb. 24 and March 2. The lirst concer, coronary heart disease meeting will be held in Room and chronic bronchitts, is ef. 201 of the Administration Build-fectively shown in the exhibits, ing. Other meetings will include Fair Housing Low at Work. "Filter the Facts Before the tours of various areas of the hos-

the Smoke Signals". The cost of clinic.

director of activities. Dr. Eliza-township who tell a need for The course, which opened both B. Faust, chief of extended leadership to community relaatment service; Lemore Bald-Itions, The commuttee frees that a assistant director of mass tap aesponsible citizens must org, and Albert Millar Jr., head face the challengs of the peaks maintenance. A panel of vol-dense of interracial beneath,

teers will discuss "Our Work) It has adopted the following

WIN (1) (1) SIMMONS IG TO MATCH)

there is

over 5,000 houtesals, has more that Burly years experience m fostering good will in business and

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ricontinue through April 7, Next week's talk hy Ac-

http://legacy.library.ucsf.edu/tid/zrq07a06/pdfce: https://www.industrydocuments.ucsf.edu/docs/qtgl000

included.

BEST PANGE

Conversation Course

Butts Won't Hurt Anvone",

hun' is being given under the Greve head of the department Fair (lousing Community is 2) sponsorship of Main Line School of social service: Dr. Bernard derested Mights each Tuesday evening at Cohen, head of the department of The Fau floring Committee the Inten Museum of Wedge psychology

1. Tuesday night with a talk on c 1 lecting by Harry M. Buten, w.

Collish will deal with arch.



OUALITY CARPETS FOR TEN YEARS AT THE LOWEST PRICES





IVING the 1968 award of the Philadelphia Section American Chemical Society is Dr. B. Peter Hock 529 Park Ridge Dr., Wayne, a group leader in the hand development department of Pennsalt Chemicals Or. Daniel Swern, chairman of the Fhiladelphia presents the certificate and a \$300 honorarium took for this research on the synthesis of inorganic. s by polymerization of inorganic coordination com-ALD B B BOM OF COMMENT OF THE PROPERTY OF THE PARTY OF TH

Ju Official " s Careful ia Of Wood

- 10 miles

i.. liayden, superviued & Warning yes-· residents to buy rom reputable wood

noted that a diseased ree was cut down in riton Township and irk, which harbors of the Duich Elm ngus, is being sold erion.

na can close the wating tissues of a merican Elm and kill the tree.

Fire Hits Basement In Newtown Square

A basement fire broke out early yesterday at the B, L, Winders : home, 208/ Barren Rd., Newtown Square, Radnor Township, and caused smoke damage throughout the house,

The Newtown Square and Broomall fire companies answered the call at 5:58 s.m. and remained for about two hours: the firemen reportedly found two dead cats in the basement's recreation room.

Radnor Fire Marshal Edwin Clark said yesterday that the fire could have been electrical in nature but is still officially of an undetermined origin. No estimate of damage was given.

launching a program titled tion. Children learn more of smoting continues, ac[a.0.3. (Stamp Out Smoking)] by what they see than by what program to Dr. Bortz.

aimed at hardened smokers you tell them. of the community who need can't stop for yourself, stop help in kicking the tobacco for your children", he says,

Jan. 27 and continue nightly through Friday, with a windon session " Monday, 1 Feb. 2, Hours will be from 7:30 to 9:30 p.m. (2013) 12-1-1-1

Each session will be led by a doctor, Dr. Wayne Mc-Farland, of Jetterson Hospital, will conduct the opening session. Subsequent speakers will include representatives from cardiology, cancer related diseases, chest diseases and a dentist. Films will be Shower elegan-socionarios

Registration, is limited to 300; the fee for the six sessions is \$10. Persons wishing to register may call Lankenau's Bealth Education Department, MI 9-1400 (ext. 213 or 509)

Lankemu's S.O.S. program is an extension of antismoking programs for school children conducted for a number of years by the hospital's Health Education Department.

"Trying to convince children they should not smoke when they see their parents puffing like chimneys is uphill work," says Morris Par-

RESIDENT LISTED

Harold Foster Holman, of 1613 Brookhaven Rd., Wynnewood, has been chosen to appear in the 1969 edition of "Community Leaders of America."

who want to quit but can't to reliable M. Bortz, chair is ground 50 new carses of lung.

Sp. The program will get under the man to a lealth cancer a year; less than five havy with a six-session with the care of man committee, agrees, percent survives five years, drawal clinic for members. The man parents, if you by the patients are Usually the patients are middle-aged mon at the peak their easing power, Dr.
tz politis out, "Lung
neer not only a waste

rett, director of health educa- motime if the present rate as well. And it is essentially preventable.". He cluims that one-third of the people who try to give up smoking suc-

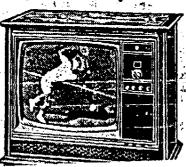
> Other : features : of, - lankenau's S.O.S. program include a counseling service for hospital in-patients and a request to employees, staff members and visitors to refrain from smoking except in designated areas.

NOWAT





Five Deluxe Console Styles!



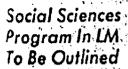
BEZT IMAGE

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417

intil then, he said, St. loind ideas to sustain it."

The St. Joseph's Academy I Food Marketing, the only institution of its kind in the U.S., was established in 1961 with the cooperation of the country's food industry, to find ways of dealing with that problem of world hunger.



Adoption of the Greater Javoland Social Science Proram by the Lower Merion Jownship elementary schools. in Important introduction to be curriculum affecting ALL lenundary grades, "add-the incursed at the first Parnia Association meeting for 969 at the Penn Wynne School Diesday at 8 p.m.

Mrs. Theolore Wilbur, Diselet Coordinator of Instrucon, will be joined by Miss lay MicFarland, a social scisice teacher from another intrentary school in the disict, in discussing the pro-

iam.

According to Mrs. George oldstone, program chairin, both speakors bring auority and commitment theirsubject as they have

"" "tilrectly involved" in · development, testing, and

cont expansion.

It is expected that Mrs. Wit-F and Miss MicFarland will il out the educational phiophy of the program as il sa ita major contenta and oir experiences with " thus . Their announc "Make the Wa

the moeting is to begin h ridreshments, Or display



ROY NASSAU, recently appointed 2 co-director of the newly-established Community Service Group for the WFIL: 7:30 to 9:30 plus a follow-Stations, will be the guest speaker at the Ardmore Optimist Club's luncheon Tuesday at Viking Inn. Ardmore. He will speak on "Community Service Responsibilities of a Broadcast Station," Nasear will be accompanied by Ron Gold, television report-

LM Gets 2 Petitions For Zoning Changes

Lower Merion Commissioners have received petitions from property owners on both sides of Elliott Ave., between Lancaster Ave, and Old Lancaster Rd., Bryn Mawr, for a change of zoning from R-6A to C-L (limited commercial).

Stanley Goodman, owner of property on the east side of Booth Lane, north of Montgomery Ave., Haverford, is seeking a change of zoning from R-2 to R-7.

CLEANUP IN LM

Sweepers removed 855 lons of debris from 122 miles of roadway in Lower Merion Township last month, Work on a storm sewer at Winding Way and Montgomery Ave., Merion, was completed. A

S.O.S. Plan Helped Studies Abroad Ahead For Two This Smoker To Quit Meadow La Merion Station

packs, of cigarets a day for temps from to smoke and their mester. Program established water nearly 20 years, Now1'm down nicotine withdrawal sympton in cooperation with the City of sity. to two curs of coiles a day toms, which usually include Like Mark Twain, I've store shortness of breath, weakped smoking a housand time and headaches and a cray-but it usually lasted only of an or food, or two days. Believing that decrees discomforts last will power was just a little about three days and are re-bit weaker than the next per-son's. I gave up trying to below and a feeling of accom-pod the smooth his unit themse because he erson by wither-in- we much its seeming the capitle of

The Five Day Plan to stop smoking consists of five meetings in the evenings from. up meeting on Monday of the next week. A new session will be hold at Lankenau Hospital beginning on Jan. 27, Dr. J. Wayne McFarland, who started the plan eight years ago, and Horace Roading will. conduct the course.

The plan is designed to help a person mentally and physically to break the smoking habit with a minimum amount of discomfort. Having the desire to oult smoking is half the battle, and McFarland and Reading make the other half of the battle--getting over the; craving to smoke -- much east-

Through the use of films. and literature, Dr. McFarland offers convincing evidence that the chances of getting lung cancer, emphysema, bronchitis and heart disease are much greater among smokers than among nonsmokers. This, however, is only a small part of the Five Day Plan; the remainder is based on positive thinking.

"I choose not to smoke." you'll be saying with the others taking the course.

In some respects, the plan is similar to the principles of Alcoholics Anonymous, Everyone is assigned a partner to contact by phone every

David II Sherson of 405 7 London College 3 734 2 The two will leave Jan 26 from New York's Kennedy hore, are Airport for 18 weeks of study Sherson is a student at the University of Pennsylvania. Walter altends Duke University And April 1865 Care Comments



Pick the right day to test drive a Volkswagen and you'll have the road to yourself.

Back when the weather was better, everybody was inviting you to come in and test drive their new what-

But now that the weather isn't so hat land a test drive is really a test), the invitations have dropped off sharply. Now maybe you can spare a little time to try out the new Volkswagen.

Not right this minute. Wait for a nice lousy day. The next time it's snowing or slushing or something like that, drive down to your Volkswagen dealer, lif you can £1 make it in your car.)

He'll be happy to take you out and show you how a Volkswagen works when hardly anything else does.

How the weight of the motor on the rear wheels makes the VW dig in and go, in the snow or the mud, or

As you pass all the stranded cars that pass test drives in balmier days, he'll tell you about the ... /'s other cold-weather comforts.

The air-coaled motor. It doesn't freeze over, so it

mind--to be free from the bondage of smoking. During the day you will

urge to smoke.

look forward to the evening group therapy sessions. They are held in an atmosphere that is congenial and friendly, People working logether to solve a common problem is condu-

them nover smoke again.

because they stimulate the

Drinking plenty of water and

fruit juices, deep breathing,

short walks after meals, and

warm baths or showers, are

a great help in kicking the

nicotine addiction. And it is

an addiction not just a hab-

it. This is not as difficult

as you might think, because

it is done with a purpose in

cive to good fellowship. Food will taste better, relaxing will be easier, and noker's hack, espethe morning, will disappear if you stop smoking.

You can stop smoking on your own, but it is easier

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By PIERRE C. FRALET Of The Bulletin Staff

A pioneer research project, at the end of three years of study, is still turning up information showing that lung cancer and sign-

lng that Jung gancer and cigaretter somehow go hand in hand.
Dr. Thomas Nealess, Jr., of Jefiferson Medical College, reported last night to the section on general medicing of the College of Physicians Line, lung cancer has been

found in 42 of the 4.703 men who enrolled in the project during the first three years.

"All of the 42 are amoters. No non-amoters so far have been found to have lung cancer.

Ratio Like General Public

Dr. Nealess pointed out the ratio of smalers to non-emekers in the project is aimest identical with that found in the general population. Out of 100 persons, 25 smoke and 15 dee't.

In the project 4.050 are smokers and 632 non-smokers.

A further breakdown of the figness above that II of those who were proved to have sing cancer smoke eighrattes only, two smoke eights and two pipes. The remainder smoked combinations of the three. Only one man said he smoked all three regularly.

the three. Only one man said he smoked all three regularly.
The highest per cent of lung cancer victims were among the cigarette smokers. The 31 cases represent 1.2 per cent of all the signrette smokers.

The two pipe amokers with jung cancer represented 0.8 of all the pipe amokers, while the two cigar mokers who were lung cancer victims represented 0.4 of all right amokers.

Elghast in Beary Smokers

The statistics also indicate that there is a direct relationship between the amount of smoking and the incidence of lung cancer.

Of the victims who fell into the eigerette-only entegory, the or-casional smokers had an incidence rate of 6.5, the moderate smoker.

1.2 and the heavy smoker, 1.6 per cent

Dr. Neaison reported that the disease pattern of lung cancer, seems to differ from that of tuber-eulosis in at least one major way. In T. B. the X-ray piate often can pick up the disease before the hymptoms become noticeable.

Four Major Symptoms

In lung cancer the reverse apparently is true. The symptoms are a better indication of the easit of the disease than are the

are a setter indication of the enset of the disease than are the shadows on the X-ray plate.

The four major symptoms of lung sancer, he said, are a cough which becomes continually worse, the spitting of blood, a wheeling sound in one lung and a substantial long of wight.

mend in one lung and a substantial loss of weight.

The project was set up by the Palisdelphia P u l m o n a r y Neoplasm Research Group in December, 1951. It was started by Dr. Katharine R. Boucet, professor of preventive medicine at the Woman's Medical College, Dr. David A. Cooper, professor of clinical medicine at the Graduate School of Medicine, and Dr. Nealson, It is scheduled to continue for ten years.

HUMPHRE KESS

Called Big Killer Day Smokers

Of The Bulletin !

Atlantic City, Jur The American Cancer Sciety's long-trange study of 135,000 men berange stony 50 and ro tween the ages of 50 and ro tween the ages of 50 and ro tween that lung can-50 and 70 conand elea ette and-in-har

Dr. E. Offier Hammand, direc-or, and Dr. Daniel form, assist-nt director of statistical reearch, reported totaviat 101th annual meet merican Medical As

32-month followsmoking habits and laters mes in this age group. extension

The report is an

the one of the AMA convention last year dealing with overall death rate that caused tobacco 6 - The stocks to plummet a total of \$77,ciety's longe 000,000 in a few days.

Rere Among Non-Sesekers

Today's report, conventrating mainly of the most widespread type of lang cancer, carcinoma, came to these conclusions:

Although carcinoma of the lung is a "rare disease among the men was have never smoked," it theris "an important cause of death n on among men smoking two or more the packs of cigarettes a day."

There were 4,430 men who smoked two packs or more in the of Continued on Last Page, Col. 5

survey. Carcinoma of the lung accounted for 12 per cent of all deaths in this group and was secend only to coronaly artery dis-case as a killer.

The death rate from carcinoma of the lung increases with the amount of eigerette smoking.

Lung cancer also appears to be associated with pipe smoking but to a far lesser degree than with eigarette smoking. There seems to be no significant tieup between cigar smoking and lung cancer.

The rate of lung cancer was high in cigarette amolers and low non-smokers regardless of in whether they lived in a city or in the country. However, smoking habits were not able to account for all of the higher death rate from lung cancer in urban areas as compared with rural areas.

During the 32 months of the survey there were \$52 deaths from carcinoma of the lung among the 108,000 men who said they smoked regularly. This is a ratio of 145 out of every 100,000. This compares with & death rate of 4.9 per 100,000 in ripe-smokers. 20 Times as High

"In this group the sate for men with a history of regular eigerette smoking was about 29 times as high as the rate for men who mever smoked," the idoctors reported.

"The rate for two-pack-a-day-! or-more cigarette ame 00 times as high as the rate for: men who have never smoked," the report went on. "The rate formen who have given up cigarettel smoking is 14 times as high as-the rate for men who have never moked but only half as high as: or men who were smoking less: than a pack of eigerettes a day it the time of questioning."

In another type of survey conucted by the American Cancer ociety, a majority of chest surcancer researchers and sthologists who were questionid said they believed heavy cigar-itts smoking may lead to lung

Loss at Parkey Einty-three per cent of the hest surgeons, 54 per cent of the mearchers and half of the pathlogists checked "yes" to the Catement that heavy smoking of dgarettes may lead to tung can-

The "no's" ranged from four to even per cent. The remainder Mere uncertain.

Some 13.000 doctors and 12.000 wests are scheduled to attend he week-long series of meetings.

Cites Previous Studies

Burney gave no new proof, but strainment superially one sky a special study the healts group made, public last March.

Burney's statement' brought the healts proup made, public last March.

Burney's statement' brought the healts ple, white scientific advisory board dustry als of the scientific advisory board dustry als of the scientific advisory board dustry als of the Tobacco, Industry Res 200,000 for the Tobacco, Industry Res 200,000 for the Tobacco, Industry Res 200,000 for the Tobacco, Industry Res 200,000 for the Tobacco, Industry Res 200,000 for the Tobacco, Industry Res 200,000 for the Tobacco, Industry Res 200,000 for the Tobacco, Industry Res 200,000 for the statement wades not human suring rew to what has been known bluman suring rew to what has been known bluman suring rew to what has gener. It reflects the opinions of some rette smoking is a cause of hung law to have actively cancer.

It respects the opinion is interpolated that some rette smoking is a cause of hung law to his previous his interpolated that on hung cancer influences of opinion is interpolated influences of opinion

Washington, July 12—(AP)—He Haalth Service feel the Surgeon General Larry E. Bur weight of the evidence in the research foody of them that excessive fear of the canadaty pointing is one of the canadaty of the canadaty something is one of the canadaty of the canadaty something is evidence that excessive fear of the canadaty something is evidence that excessive fear of the canadaty something is evidence in lung canada. It is clear of by Burney was established in that heavy and probleged cige. The special attudy group quotient is problem. He shall flow, with the private health or canada the Public Health Service in question canada the Public Health Service in question and the American and added:

"The precise nature of the fear of the March of the American and added:

"The precise nature of the fear of the March of the American and the terrolating while can canada the statement function produces that they group has beaded by Dr. J. H. Strong the terrolating while can canada the statement function produces and the statement function produces and the statement of the shall service produces of a statement process of the among generating prevent than along a statement by tween the statement of the statement and the statement of the st

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THE GALLUP POLL

garettes Linked to Cancer? Public Now Thinks So

FRGE GALLI Director, American Institute W/ Public Opinion

Princeton, i. J. - he con-trovenial report on the incidence of hing dencer among cig-aretteen midely has been widely dence arette makes has been public — but whither a person is disposed to heller the findings dependent to the findings dependent to the findings dependent to the findings dependent to the findings dependent to the findings dependent to the findings dependent to the findings dependent to the findings dependent to the findings dependent to the findings of the findings of the findings dependent to the findin

Mor the three out of every stioned, or Ti per four square positioned, or 77 per cent, said they had heard or read about the report, a phenomenal figure in polling annais. A part Characte smokers only 12 per cent said they were farmers with the approximated mublic mublic services.

And make the public minuted by is included to believe the cigareth smoking is the causes of lung cancer, persons addictor to the habit are almost evenly the transfer whether it is or is not one of the causes.

Non-matters Polled

Among those adults who do not smake and it, nearly suc out of every too 150 per cent) think cigarete among is linked to mount is linked to Junt caud

The uper, "Smoking in Rela-on to the transfer that read tion to tinual meeting of the at the American Solical Association recently in the New York by Dr. E. Guden Hammond and Dr. Danie, morn, of the Ameri-

can Cance Society.

The state found an "extremely hitself association between citarette amoking and deaths from the lung, larynx, and esophagus and from gastric ulcers. It also raised the question of a link with heart disease.

The Public Health Service has taken the official position that there was "increasing and consistent evidence" that "excessive eigerette amoking is one of the causative factors of lung cancer" and has begun a nationwide informational paign on the subject.

Statements Challenged

These statements have been challenged by the Scientific Ad-



DR. E. CUYLER HAMMOND testifying before the House Government Operations Committee Investigating filtered eigerettes. He is co-author of the American Cancer Society's study on smoking. Note his own pipe in ash tray (foreground).

wisory Board to the Tobacco In- by cigarette smokers separatedustry Research Commutte.

In the survey, interviewers for the American Institute of Public Opinion first asked a cross-section of adults:

"Did you happen to hear or read about the recent report p! the American Cancer Sovisty reporting the results of p atudy on the effects of tipgrette amoking?"

The replies of the general public, by men and women and August, 1953, Institute survey ments of many citizens.

MEARD OR READ ABOUT CIGARETTE-CANCER REPORTS

| General public | | ₩0 33% |
|------------------|----------|-----------|
| Mes | 79 | 21 28 |
| Cigarette ameker | . | 18 |

found 42 per cent heg/heard or read about the late Dr. Alfred C. Kinsey's famous studies on

Interviewers were next ask-

"What is your opin you think eigeratts specifing is one of the squees cer of the lung!"

Here are the views of the general public today: CIGARETTE EMORINO ONE CAUSE OF LUNG CANCER!

(General Public . 80% Tes, is camps Undecided, dan't know . 26

The views of eigerethe smokers only: Yes, is est No, is not

The views of persons who do ot emoke at all: Yes, is cause No. to not 14 Tadocided, don't k

How do men in the critical age group, from 50 to 70 years. who amoke eigatettes, and those who do not feel today about the possible connection of smoking and lung cancer?

Here are the survey reaulta:

MEN CIGARETTE SMOKERS AGE 80-70 EEARS

No. is not 64 Undecided, don't know . 24 MEN NON-MOKERS AGE \$0-70 FEARS

You is cause . No, is not Undecided, don't know . \$4

Senator Wallace F. Bennett (R-Utah) last week introduced a bill to require that each package of cigarettes carry a warning that prolonged use could cause cancer.

The effects of the initiation of public health measures could, of course, be far reaching. They would involve a major industry in a considerable number of states that employ hundreds of thousands of people and also would involve large revenues By way of comparison, an to the government and invest-

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BEST

produced by RJRTC in HIIMPHREY

BOUTH BERD, Ind., Oct. 5

—Cignrette smekers who is more than three packs a day is more than three packs a day is more than three packs a vernal at it can sutherity.

The Park Francis J. Count feath of Sam Theology at Catholic Divivers of America in Washingtoned the charge in the curry have of "Ave Maria" magazinade the charge in the curry have of "Ave Maria" magazinade the charge in the curry have of "Ave Maria" magazinade the charge utiled "Is it fan to Smoke Cignrettes Pather Commell and: "Modern the charge of the relation of relations the relation of the contents in it."—The defined moderate amolier as one we contents highest with one passed only and parhaps a few more than the parhaps at the more than the contents highest with one passed only and parhaps a few more than the parhaps a few more than the contents and the contents highest with the contents the contents and the contents highest with the contents th

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Sawin ning in will an

1000 Volunteers to Join Thousands In U. S. In Checking Smokers Non-Smoker

the Allies.

More than 1000 Allegheny Gounty men and women will a survey by the American Cancer Society to being hibits have any relation to lung cancer. Dest M amokin P

The survey, to be made by volunteers, p survey to lung cancer sharp dering the last 20 years. | | diagnosis ring the last 20 presi-obase C. Graver, presi-day Allegheny County dent

Chapte deaths have increased six volunteer survey and comblete distances. There is so (for more listerviews are about parable aincrease in other to contact the Cancer Society at sizes at the disease." comparable wherease in body sizes me the disease."

Interview 10 Both smellers and non-smokers between the ages of 50 and will be included in the check.

The diseasons very rarelat many media women with tact. The Mash Feb. 7 RJP;
The Mash Volunte compart to the MS2!! Stratosoriress,
500,000 who will work nationally world's largest all jet bomber; is
will interview about 20 personal regding secret fact.

a questionnaire en here on their tampking habits. It wi

on their smoking habits. It will when tests are completed, a be limited to male relatives, after plane, the YB52, will be neighbor or close friends.

At the thir of each six monar Swan similar ground tests and period the vigunteer researches these taken on a test flight, offiwill reposition names of those call of the Boeing Airphoie Co. persons 📸 mino langer are li 11 2 11 ing. A medical committee willinvestigate tine cause of deat

's Objective Over a period of years the Society's tisticies hope to hiscover metether smoking is discover matether smoking is contributory to the disease by analyzing materials of lung concerdeaths, among smokers and nonsmokera

Dr. Gamma also advised all persons over 50 to get a cless K-ray each year.

"X-ray can detect the presence of lung cancer many months before the warning symptoms appear," he said.

Symptonis of Cancer Some of the symptoms ar persistent cough, loss of weight chest pato, wheezing and spitting of blood.

The number of lung rancer cases being diagnosed in the United States each year is now about 201000. Because: of late

And Departures

nenta scheduled for today:

a place

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ALLOW

On Any Old He Regardless of ON A N



PRICE ALLOWANCE YOU FAY - -

ROBERTS BUD * 1.50 Down. Wall Order Eyen P JOHN M.

ROBE

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THE MAIN LINE'S OUTSTANDING WEEKLY NEWSPAPER

MONTHLY IST CARRIED

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ARDMORE, PA., THURSDAY, JANUARY 23, 1964

55.00 per year (Montgomery Co.)-\$6.00 per year (outside County) \$4.26 per year delivered by carrier

Radnor To Hold 1964 Tax Rate At Same Level

Proposed Budget Gives Employes 4% Wage Boost

Hadre Temphio's lax rate will be entrhanged in 1964.

The lett tehin's Buard of Cum Intellment led Thursday unveiled a 41,912,170 hadget for the the Lower Merion system caught your and gave it preliminary ap smaking in school could count suration provid. It will receive a final on a three-day suspension. one wrife the plant being displayed for a But that was before more lib-

I'm al 21 mills as an 1963. According could smake with impunity. When mplant in finant President Rucco A. Od-Harrion High School opened In the mish, the terreship entered the fire years ago a similar "smok-La SCO, MIN

ste No and given a public "reading."

"With this surplus," he said schooler maker may be on the ted 8.4 "no two granting township em- way out. The Lower Merion or rout, players an everall increase of lour school beard Monday night acor drip, percent in their solaries and wag dered the school administration around en, with one or two adjustments to study the amoking situation of region selection for people in with an eye toward eliminating the professional category." Sometall authorized smoking in the

will set a robe. OUD: The More percent ligure equals to report back to the hoard at the increme given by neighbor-life Feb. 17 meeting. last Lawer Merica to its enusiones Only at Harrison New

in the newly adopted indeed. Why No Tax Drop?

udentSmoking <u>Legalized</u> Merion Of Old Buck Inn

Hazards Prompt **School Directors** To Consider Ban

Once, high school students in

status, south in the lowarchis building eral attitutes took hold, and Lower Merion High School designated lay. Me The real estate lax rate stage an entdoor area where pupils low your with surplus of ing center" was designated there. Now, the day of the legalized

> of the remainstraters themselves high schools. Supt. of Schools Philip U. Koupman is expected

i Only one of the two wnior high achools permits student . Ormitoto soid he expected that smoking this year. When confronte might wonder uhy taxes struction work on an addition dur I if there is a got underway at Lower Merion ton plus aplanation he point. Iligh, the smoking area had to tool out to the first restal be rectained for that project, possess in the new township Presumably, however, it would w under constructhave been restored when the



200 Turn Out For 2d Defense

19 Witnesses Urga Rejection Of Plans For A Restaurant

A large - and vocal - numher of Okl Buck for enthusiasts direct the Haverlord Township Board of Adjustment Theaday sight in a pest-fe-last-difer atternot to save the 234-year-old landmark from the wrecking CTCWS.

Hog Shoppes, Inc., which purchased the inn for \$200,000, is seeking a zoning variance which numble permit the corporation to build a restaurant on the effe-

The bond has & days in which to reach a decision about the Juning variance

It is expected that, if the Board okays the variance, the lease will be annealed in court.

This week's hearing was a continuation of another a week lago which was devoted largely to the presentation of the list Shoppes' case.

Marre than 200 persons opposed to the destruction of the inn and to the construction of the restaurant were on hard this time to protest the zoning becomion and to cheer on the 19 witnesses who were protestling.

Opponents . eard

The low egy noises and hearing those devoted lar to the zoning who were c

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ina 16

vies

4% Wage Boost

Harliner Township's tax rate uill be tuchanged in 1961. The leviteble's Board of Com-

that to re- titles housers in Thursday unvil- Once, high school students in 15.1 rout. rd it A1,392,978 loudget for the the Lower Alerion system caucht Your and mye it preliminary ap smaking in school could count

as uppose to Bourd President Rucco A. Od Harrison High School opened on to re-periods, the township entered the five years ago a similar "smokfor your with surplus of ine court" was designated there. dents in \$59,500

"Out little "With this situation" he said schooler smoker may be on the let, Ell "up are granting township end way out. The Lower Merion the rear, there in marall increase of low school board Monday night orter strip, poverent in their scharies and war dered the school administration around in, with one or two adjustments to study the amoking tual of twithin solaries for nembe in with an eye toward el and the productional category." Some all authorized smoking ain

twill not a robe. ·roup

The little percent figure equals to report back to the hoard at the increase given by neighbor-its Feb. 17 meeting. ing latter Merion to its employes Only at Harriton New

· bent• INCHINEY in Save ithes, to ther. 121 the salary in project was completed. e-chair- a reuse noted by accommodated: But flacriton continues to peroil trul- 170 a bill-line park and recre-ink smoking in a specified outattent arounds supervisor is being done and and will continue to hired, total (4) \$3000 more is be do so, school efficials indicated, ing appropriated to the Radner at least until the February re-Fire I'm then in 1963, and "a lit-port.

> The surplus compares with a marked by the recent federal correct figure of only \$545.11 report stating efficielly that a year ago. Breaking down the anables is a health hazard. The

n Page Thirty-Feet

uls Admit It

and for Convelors to his brief talk. hand must a point of his familiarity date ni-m a jawrer-with the legislafor one they pro-He also emphasized solving problems at r Mer-lala tooli T. And the sime -rei williout resorting and alto be action.

h turn, told the clob

School Directors To Consider Ban

one and the alter being displayed for a state day suspension of the property of the state of the Now, the day of the legalized

of the commissioners themselves high schools. Supt. of Schill Philip U. Koupman is expected

in the nearly adapted landget. Only one of the two senior why No Ton Drop? high achools permits student Untilide and he expected that smoking this year. When consome might worder why taxes struction work on an addition rential be reday. I if there is a get underway at Lower Merion introlled in explanation be point libin, the smoking area had to ad unit that 111 the first rental be reclaimed for that project. payment on the new township Presumably, however, it would is, now under constructions been restored when the

the neare" to the Bryn Mour! The school beard's renewed interest in student smoking was inds. Odorisio said \$13, report was admitted 12 days age to the Success. General of the U.S. by his Advisory Com-

> add an official status to the major 1964 project. cigarette smoker's wees.

School director Albert E. Bicklieve we should support smoking within its own community,

inued on Page Thirty-Four

Schoolman Cuts member remarked.



all of Narberth, sample merchandise awaiting disposal during the annual Girl Scout Cookie Sale, which opens temorrow, The sale will continue through Feb. 17 —(Bill Harris Staff Photo)

Women To Probe Civil Rights Here

By a unanimous vote, more! "Only three times before has liber didn't already know, it did civil rights in the township as a Mrs. Whitman.

"This is more construct" than our telling other are the country ! to cope their problems, one Mrs. Martin J. Whitm.

militee on Smoking and Health, then 25 members of the Lower the national organization suggest-While dectors have indicated Merion League of Women Vot-ed that we take direct action that the report told them nothing ers have agreed to investigate on a specific subject," explained

The report was based on local Richard Toney Jr., 24, in a rail-jord, said the be housing surveys plus a Bryni Mawn graduate student's honors Alpaner on "Discrimination

Suspect Held Suburban Sa that historical statutes are very sloppy."

in Baltimore on a charge of rob- He called traffic in the area There are many area groups bing the Philadelphia National a "serious hazard," The prop-The consensus at the group's engaged in civil rights problems Bank branch in Ardmore Friday, jetty, he said, was more suit-School execute Auert C. mich membership meeting Monday now," she said, citing the local A lone robber escaped from the lable for an apartment or office lett had that report in mind Mon-income and a sum of the large should study NAACP, the Fair Housing Coun-Suburban Square bank at Mont-classification, live board members, "I don't be within the country of Delaware Valley, Suburban Square bank at Mont-classification, when asked if author board members, "I don't be within the country of Delaware Valley, Suburban Ave, and St. James Wifiams, when asked if author that the country of Delaware valley, Suburban Ave, and St. James Wifiams, when asked if author that the country of the suburban Square should study be suburban Square should study not be suburban Square should study not shou ban Fair Housing in Ardmore Place, with \$1.700 in cash short other type of use such as a and American Friends' Service before 1 p.m. that day, parking lot Baltimore police arrested John would not a

PICTURE ON PAGE 2

Rejection Of Plans For A Restourant

A farms - and vocal - numher of Old Back inn cothusiasis faced the Haverlord Township Board of Admistment Tuesday wisht in a next-tu-last-clifch attentral to save the 234-year-old landmark from the wreckies ******

Hot Shoppes, Inc., which purtriused the inn for \$200,000, is seeking a zoning variance which in add permit the corporation to build a restaurant on the site. . The board has to days in

which to reach a decision about the soning cariners

! It is expected that. If the Board okays the variance, the lease will be appealed in court.

This week's bearing was a continuation of another a week ince which was devoted largely In the presentation of the flut Shatanes' case

Mure than 200 persons abnoscel to the destruction of the ing and to the construction of the restaurant were on hand this time to protest the zoning exception and to cheer on the 15 witnesses who were protesting.

Opponents And Heard

The four - hour session was devoted largely to hearing those who were opposed to the zoning change.

The board did, however, hear one witness for 11st Shappers. Charles E. Peterson, a consultant in the restoration of Independence Mail, told board memhere he seriously doubled that William Penn's son Thomas, had a part in building the inn.

As the crowd screamed "Trailor!" Peterson went on to say that historical studies "out this

Leslie Williams, an authority on traffic engineering and city ulacolny, presented a 10 - P & E t. report on the area at Laucaster. A Drexet Hill man is being held and Martin Aves, where the Inn is located.

nce of business the same haz-.ie hours of onshorter than eration was open seven for a resta.

nela- Til http://legacy.library.ucsf.edu/tid/zrg07a@/pdfe: https://www.industrydocuments.ucsf.edu/docs/gtgl0001 UNITED OURSTONING-Lestie Williams (back to camera). reallie annert blend by the Old Buck Inn's defenders, answers e questions of John Norris, attorney for the local residents. Tuesday night hearing in Haverlord Township Building, In. background, Frederick D. Sarkis, one of the Hot Shoppe in's atterneys, centers with fellow lawyer Robert E. Porte thems shed the hetards of increased traffic from the restal -(Bill Harris Staff Photo at at peak hours.

man of the township's Demo Altman e parts

fallum dennes of Villanova. a "murquivocully" state cept on Laucaster Pike

cos of property "

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ssembly sand Fram Page One

a manufacture of plasdevote hildring to Barriss

roman soul he believed in

nha and he would be me et as a legistidos ar efecclinates and in reduced taxtaishing in order to en-· mare quinstry to en-مسينا يحيث

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ion Approaches

 at the three to , or specified the GODE Montgure

BEST IMAGE

Continued From Page One

its lawyers have counted on this ognized the dangers stressed in office

traci in a so-called "planned de verdiet

as where load government ready been fully established and the see where local government ready been fully established and mg content on content on contail which must be paid elequine the called numselt proven. He argued that uned the content on the new township building assistance in funding that era, planning concepts conderns ed that not over two percent of Meanwhite the township has and service uses along a high lighting up elsewhere

> The association argues also times in said that amortments will non-A Paradox Noted

himataan Minigall contended last week observed. The not since that Other's content departmental paper The of that commercialization of the stopping a snoking area will expendite County Chew land might "conderon" stop the children from smoking " celuse conmean damper F andinger nearly residential areas along Matthew Weinstein says a page monter of \$45,000 for pensions points and Nicco of Rationhouse the pike to a like tate

Smokina Cantinues From Page One

he has been concerned about the local society is 81 milion impaign out or conduction. Tehallenge of others to the sur. Of the challenge of streets to the sur. den who doesn't smoke 'Not Healthy Practice'

to start smoking, he said. "More and more—and especial Budget ty now that this latest report has Continued From Page One been published by doctors - it

citizens

other) Porter of 20 Hillare fact to allay residents' tears. the federal report, its members More Funds for Police

Daniel Mongall Jr., president tested vigorously ognisst the ets 55,0% torthe hillding to Harriss of the Radnor. Ithan, and St. enforcement of the rule But he A total of \$131,500 is appropriate budget is expected about 100

length. Mrs. William A. Jeffers both over Luffe Darby Creek. Some in the fourth person som the dox in the fact that the schools \$46.56; to be a special a hit of among an examp \$20,945.

Jability and vital concern about con School in Switzerland; and a director of United Fund and the the concer problem."

Explaining his interest in the local American Cancer Society society, Richards said that "re- American Cancer Society funds during school hours on school search scientists have come so support programs of education property. Personally I feel this very far in learning more and service in cauter patients and chould be stopped. Bickell over more about camer and, I be research. At present \$1.174.351 lained that while a majory time whate they need notes a line recommendation of the latest the control of the latest three majories.

pared that \$750,000 will be restonates during April which is heaved from April cammangu so traditionally designated as Ueb

vision plan fees The discussion that ensued The commissioners' president \$1,800 and the land use plan the perimeter of the tract tex made it evident that the school said the board had "spent some Some \$867,600 of the found

softer average of Penn's. The butter area would remain ing a genuine moral diference of Copies have been made avail-ed to come from real estate to

the head the plan, we will week's hearing on the land use to 2 studen edict banding all in-a mutilier of motionism. Plan when several residents on-school smooking in the end, as usual, for police: \$1(3.050 \text{536.5} million last year perm storm resonants on school and wring in the contract with \$250,000 last Under a separate sever collected to the placing of the Chew therefore, they postponed a final year. Two policemen will be added too bladget \$26.010 has been as ed to the force, restoring it to incated as Radisor source of the velopment entegory. This would be background on the subject to the torve, reservoir parameter as roomers when the subject total of 43 men, and one more cost of the Radino. If excellent pare the way for commercialize they formed to Supt Koopinan Crossing guard will be lived Marple Joint Sever Authority tion of the land, since "planned When the three-day suspension with the four percent ourrease. The figure constitutes 35 percent thing of the same, some parameter parameter takes in business, policy was in cogne for smokers, patrolinen will receive \$5.602 of the \$187.000 none some bank a flagmentation of plass admiratory and aparlment uses, be said, many parents had pro- fer five years' service, newcome of

Davids Civic Association, said at emphasized that the school system of the hearing: "The residential tent is within its legal rights if with \$159,000 a year ago Response commissioners." og state and bederal action character of the area has all it chooses again to ban all smok-sible for the increase is a \$26.

as undesirable, the strip come students have been using the air budgeted \$173,000 for its righway mercialism which results from thorized smoking areas. But he department against \$120,730 m gradual development of cetall arknowledged that some may be 1963. Some \$15,000 is Indigeted lon reconstruction work on the Welsh Valley he High Scia-It's not cond outdoors, some Roberts Rd bridge user littud last its first consection, also of Creek 86 500 for Main Rd the season to Rateule of 3 bridge work and \$9,500 for the High School by a sent of 20 to vide more tax revenue than a. Board members spent a half W. Wayne, the bridge rebuilds 24 It was hard touche of through store and apartments com-tion exploring to storect at ing The latter two bridges are the game but fatheonous ones

> ticks and recreation, had a points Juneus, \$20,718 for The Welch Value J.V., burne

"I wonder if it has I encourage to the and memorials, and rer Control Month by Vet of Con-aged some non-smoking students 25 moreon legacies. guess bervisor will be paid \$4,000

Some \$1.600 is being affocated for run weekend play supervisers mortoredire Units

definite View to the control of the first the total of the first the total of the first terms of the first t ardizing the health of our union and \$3000 from additional subdisserves the east end of the 1930 shin will get \$2.000 in Bell'

nirectors found themselves hat fine in reviewing the new birds, ship's monetary needs a expect shall be envent for electroned R-1, and B. Altman and While the board as a whole receable at the township secretary's test test year such taxes (a) alaced \$841,247

The millage rate is based in "If the routing map for ceeded was evident at last and learly of parental reaction. Largest item of expenditure measure of Section 1.

Final adoption of the Ketter

Welsh Valley Five Drops First Three

vil be \$130 128 for Tony Russo of Weise Valleing \$100-587 for fail that begin scoring home, with an

GUARA isen

USED CA

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LA 5 .. NEW CAR

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Clearan

PRICED FOR

1962 CONTINEN

4 Dr. Sdn. One Owner, Los Marona with Black and White I-Powers Plus Air Conditioning.

1962 CADILLAC

Sedan DeValle, 6 Window, Black Black & Whote Interior, One ti Condition, Full Power Also F Compliant C.

1961 CADILLAC

Sedim DeVille, 6 Window, One C Power with Factory Air Co Medium G ray with Matchin Must See To Appreciate.

1960 CONTINEN

Mark V Conv. Cpc., One Ow New Full Power, Princeton Leather Interior, The Finest ! Buy.

1960 MERCURY

Colony " k Station Wagon, Lo Soft Green Finish f):34* Jung Pautory Air U Power On A S , ce One.

ORD 195

reases Merma politics - to that the

the west comme after we've asial the Bouse seal."

. Brugger Candidacy

on Production Engineering way Philadelphia, and active Republican affairs

Potomac PC Tops orge Malletmen

at Whyne.

was the third set His for the Cade, the have tone. BOYNI ISSO FOT scason in 👵 had # losing * a years of in-

the pike to a like tale

C Oppring Leonard Dill and aid its cause, he said. We that the same too better the military helicity and the same with a feel tightness without our constant who well as the same too better the same helicity and the same had been said to be the same too better the same had been said to be the same too be the same had been said to be said to And the House straight that he is interest to the form with his and the and to the House straight the town in wir not be served by a the Private Strain schools have the called the Angel and Infl. would hold a zoning change to commercial." aways tought the harmful etc. Raise (Board Members tog in the township this Only one of the seven town-texts of longero At the same. The commissioners will each again had high scoring began-

A decision in the controversial a.m. tomorrow." outlibles entering the pris case will fixely be postpolication and Mi days, sharing Jan til after the land use plan at a to the pelitions supporting sweeping new coning ordered anddday Those who don't for the township have gend The purty bucking must de- adopted. Some residents arrived from the School evenduring that period whether last week against the liming of attended Loxer Merion.

naw vice president of Tele-the planned Mid-County Express. Dr. Koonman said the high

SCHOOL'S 25TH YEAR

ha Brugger announced dur- Former and present members have enforced it as vicilantly as the week that she planned of both the Bala-Cynnyd Junior they used to." With smoking perand overy community in the high School faculty and the ex-missible elsewhere in the school I listrict in her bid for nom- ecutive council of the florie and system, he indicated, the old School Association will celebrate three-day penalty is no longer the school's 25th year with a re-considered appropriate. Although ception and dinner at the school it is enforced for repeated of-Saturday, starting at 6 p.m.

ON TV SHOW

Dr. Morton Grosser, formerly swhether to take strong action imtulented, first moving Poto of 527 Greystone Rd., Merion, mediately or look into the matthishied, find moving Poto-was a featured guest on the CBS the that built and then consted a 12-8 victory over Valley as Milliary Academy's mallet-fornia's Stantord University on a jer course—despite a warning on an indoor match on Sun-writing fellowship. He recently from E. A. Walther that the in four book. "The Discovery of Nep-pone action,

103211 Mrs. Wickers v. helicis Long to re radia Contr. Circo. body of the three is nominal. Mineral contended has week observed, "I'm not some that. Other substantial departmental game

tool whether anything hait deplied about the Senage Methods the area in questions of the Mandinger replied. The continuous the will uppose the pe. Verse effects of any attempts to the month of the senage of the month of the senage of the month of the senage of the month of the senage of the month of the senage of the month of the senage of the month of the senage of the month of the senage of the month of the senage of the month of the senage of the month of the senage of the month

the objections smoking. McGowin got agreement from Joseph E. Morris, ment from Joseph E. Morris, maintenance supervisor. Morris maintenance supervisor. Mor

school had indeed forbidden all smoking since construction got underway, "but I don't think they tenders, a first offense is more likely to bring only a warning.

In the end the board debated

and the decided in a seck of that commercialization of the stomone a snoking area will expenditures will be \$10,28 for fony Russo of Welsa Valley of GDP Montgomers County Chen land might "condemn" stop the children from smoking "refuse collection, \$106.287 for ad-East high scorns fromtes with its orman James E Standinger nearby residential 2003 along Matthes Weinstein sax a para-ministration, \$15,000 for pensions, points, and Nave of Rittenhause

dox in the fact that the schools \$40,396 for parks and recreation, but 9 points onlinger and yesterday no Mungall's group has hired a spend a lot of money in exam-\$20,945 for libraries, \$23,748 for The Welsh Valley J V 's hories: and with Lower Mexical professional hand use planner to ming students health while at fire protection \$20,620 for from Bittenhouse 40 to 29 Louis Small

open Meriot's Mrs. Brigger, med Jan. 30 hearing on the zone in his feelings about the in-ship Solicitor will similarly getflored with 16 points, owhile, is concreted as good now been postponed because of existability of schoolboy for girl) [57,280 instead of \$7,000.] Welsh Valley J.V.; bean Bata-tomers he anylody for one of now been postponed because of smoking. McGowin got agree-tage such as the sun-time objections.

INDIA, SINGAPORE,

BANGKOK, HONG KONG,

JAPAN

request 're pleasure of your company on a twentyee-day World Tour commencing friday,

Tony Russo of Welsh Valle

enforce such a decision "by 8 trease applies to Commissioners Valley had 11 points and 6 Bichard Krick and John F Brunt of Methacion bod 3

Christia and also to the newcon. Balla-Criwyd friet Welsh Valley
the orange to Be Hess at a me and won the game to ... 4838 Weish Valley play best game of the season though At one time the score compared with \$9,000 in 1963, was 37 to 35 in favor of Bala ouring that period whether the trace and battle the died by the first land plan heart special migration.

Township Secretary John C. Cynwyd The high scorer of the heeds of the first land plan heart special four percent increase, getting \$9, wyd with 18 points. High scorer of the said. This is a personal four percent increase, getting \$9, wyd with 18 points. High scorer of the said.

Colony Pack Station Wagon, 1 One Owner, Soit Green Fines Power behating Pactory Air (On A Scarce One.

1959 FORD

Country Samire Station Wen. 8 Trans. Power Steering and Br Heater and Whitewall Tires, J. Magnificent Condition

1956 LINCOLN

Cauri 2 Dr. Hardton, Auto, Tr Steering, Power Brakes, Rac and Whitewall Ties, Very Go ically.



Skim over the Ice-t



whose. Hobert Allxa centry: ordine: Mur. and Mrs. Mary Johnson of Penn Wy

. Kac.

· Rev-

Relifer

John

CAST OF CHARACTERS_AHI players appearing in "The Best i Minimorrew and Saturday at the Ai ters of Rala-Cynwyd: Carl Fiste

NAMED FELLOW

Dr. Thendore A Tristan

Buln-Cymwyd is among 40 ra neista to be made fellows of merican College of Radiology

RSING MANOR

MANNER IS EXCELLENT"

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Jrray 8-3636

Center of Wayne Business Area)

FEB.6.1964 319

lother prizes will be awarded by my. The art center will prothe awards

ork must be delivered to the re on May 21 and 24 The abit will open on June 5 when prizes will be presented.

weenter will be charged \$1.50 as

Person?

ing to the Montgomery County Human Body", sums up the obtained by writing the art Tuberculosis and Health Associates and cons of smoking. It center at Box 131, King of Prus-

SING AT ONG WITH MICHLING ... And everyone did as the girl scouts of Gladwyne entertained their dads at a fatherdaughter banquet last night at the Harr ton High School cafeteria. Rosemont, "Michling Miller." one of the several comic features of the two hour entertainment, was actually Dolfy Lamb. din. Gladwyne Troop 1129, daughter of Mr. and Mrs. Charles

A substantial increase in re-joints and other community or ian entry bee quests for films, filmstrips gamizations. They have be an All types of art work will be

printed material and exhibits tanged by writing the so-accepted, including water col-pointing out the harmful effects enation at 1529 DeKs. So priors, oil pointings, photographs, of smoking on health has no ristown, or by calling Blanco, drawings, and prints. cution

Dr D Alan Sa more, president, demand for factu ative materials -interest stimulated by the Pair smoking on the lungs and cur-

tie Health Service's report culatory system. "Smoking and Health," and to publication tocally of a "Resource Unit for Teachers on Smoking and Health."

The following health materials able for schools, church groups.

groups or to interested individ- Applicants for an orientation nals includes the leaflets, "Don't course for new volunteers are Let Your Health Go Up In Deing interviewed by Mrs. Dorist Smoke" and "Filter the Facts B. Bertles, director of volunteer as well as speakers, are avail. Before the Smoke"; a collect services at Haverford State Hostion of articles on the smoking pital. Haverford.

diseases in which smoking is an course, which will be offered Township holds in open meeting important causative factor-are from 9 a.m. to noon on four suc- at the Memorial Library, Wayne beessive Monday mornings.

Evidence that smokers risk Scheduled dates of the course learlier death than nonsmokers are Monday, Feb. 10, Feb. 17. and are more apt to get ling Feb. 24 and March 2. The first Human Relations Commission, cancer coronary heart disease meeting will be held in Room will speak on "The Pennsylvania and chronic broughtits, is ef-201 of the Administration Builds." fectively shown in the exhibits, ing. Other meetings will include a Filter the Facts Before the tours of various areas of the hos-

smoking in money and health is! New volunteers will hear adtold in another exhibit, "These dresses by Jack B. Kremens, ford State Hospital; Mrs. Ber- reports from perma and sur comilles, Dr. Aaron Smith and Mrs Imittees and the fellowship group Buten Museum Begins Grace Harrison, of the depart. Also on the azenda will be a

The course, which opened both B. Faust, chief of extended qualership in community relaarment service, Lenore Bald-Hons. The committee trees tail a assistant director of nors- "all responsible citizens must ong, and Albert Millar Jr., head face the challenge or the prob-

deers will discuss there Work; A has adopted the following

there is

 SIMMONS ILT~• SYLCON

EXAMPLES: ATTRESS HG TO MATCH) YWOOD SET

JACO EWOR.

fostering good will in business and

community life, for more informa-

Welcomen Cavagon

Phone TUrner 7-2747

the Smoke Signals". The cost of clinic. Batts Won't Hurt Anyone". over 5,000 hostesses, has more then thirty years experience in

Conversation Course

dion" is being given under the Greve, head of the department Fan Housing Committee is in sponsorship of Main Line School of social service: Dr. Bernard terested Nights each Tuesday evening at Cohen, head of the department of The Flan Horizon, Communities the Buten Museum of Wedge Insychology

Tuesday night with a talk on c lecting by Harry M. Buten, w. continue through April 7,

Next week's talk by Aa Colish will deal with archi-

Talk On Human Relations Set By Fair Housing Unit State tagehousing legislation followship. Cobian membershin:

controversy. Facts about chrome. The personal interview is a will be discussed when the Fan fand Mrs. Martin Stevens, pubbronchitis and emphysema-two requisite to the orientation Housing Commuter of Radnor Perty. Need Carpet?

at 8 p.m. Wednesday Francis P. Bonnet, field (etc.) resentative of the Pennsylvania MILES and SAVE Fair Housing Law at Work" JAN

Luther H. Smith Jr of Villa-Fruter the racts Before the tours of various areas of the host neva will preside The agenda (Smoke" and "Teenagers, Water pital including the out-patient will include a special report the Smoke Smoke Smoke" The most of clinic from members who attended last week's meeting at the Fair thus-MD. superintendent of Haver, ing Workshop of Spenigheld pin-

(ment of medical research; Dr. discussion of the work being Thomas W. Phillips Jr., assistant done on Villanaca's community A course cribbical Conversa [superintendent: Mrs. Eleanor S. atalaay Succession and the

of Radmor Township was formed wood, 246 N. Bowman Ave., Mer. ! Also, Fred E. Odhner, coor-last full by residents within the dipater of activities. Dr. Eliza township who tell a need for maintenance. A panel of volv lents at interfacial housing

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IVING the 1968 award of the Philadelphia Section American Chemical Society is Dr. B. Peter Block 529 Park Ridge Dr., Wayne, a group leader in the h and development department of Pennsalt Chemicals Or, Daniel Swern, chairman; of the Philadelphia presents the certificate and a \$300 honorarium. lock for This research on the synthesis of inorganic. s by polymerization of inorganic coordination com-The termination of the property of the same and the same of the sa

au Official s Careful g Of Wood

i. Hayden, supervi-u Shade Tree Buund a warning yearesidents to buy rom reputable wood

noted that a diseased 'ree was cut-down in riton Township and irk, which harbors of the Dulch Elm ngus, is being sold erion. is can close the wating tissues of a

norican Elm and

will the tree.

Fire Hits Basement In Newtown Square

A basement fire broke out early yesterday at the B. L. Winders home, 206/Barren Rd., Newtown Square, Radnor Township, and caused smoke damage throughout the house.

The Newtown Square and Broomali fire companies answered the call at \$58 s.m. and remained for about two hours; the firemen reportedly found two dead cats in the basement's recreation room.

Radnor Fire Marshal Edwin Clark said yesterday that the fire could have been electrical in nature but is still officially of an undetermined origin, No estimate of damage was given.

S.O.S. (Stamp Cut Smoking) by what they see than by what coording to Dr. Bortz.

S.O.S. (Stamp Cut Smoking) by what they see than by what coording to Dr. Bortz.

S.O.S. (Stamp Cut Smoking) by what they see than by what coording to Dr. Bortz.

Same at hardened smokers you tell them.

Who want to quit but can'tly Dr. Welter M. Bortz, chair around 50 new cases of lung cancer a year; less than five way with a six-session with the committee, agrees, percent survives five years, marents. If you because the mattents are drawal clinic for members of the community who need help in kicking the tobacco

through Friday, with a windup session " Monday, L. Feb. 2, Hours will be from 7:30 to 9:30 p.mi(4) 跨加斯斯(美国标) [1]

Each session will be led by a doctor, Dr. Wayne Mc-Farland, of Jefferson Hospital, will conduct the opening session. Subsequent speakers will include representatives from cardiology, cancer related diseases, chest diseases and a dentist. Films will be Show Herechister large to

Registration is limited to 300; the fee for the six sessions is \$10. Persons wishing to register may call lankemau's Mealth Education Department, MI 9-1400 (axt. 213 or 509)

Lankemu's S.O.S. program an extension of satismoking programs for school children conducted for a number of years by the hospital's Health Education Department.

"Trying to convince children they should not smoke when they see their parents puffing. like chimneys is uphill work," says Morris Bar-

RESIDENT LISTED

Harold Foster Holman, of 1615 Brookhaven Rd., Wynnewood, has been chosen to appear in the 1969 edition of "Community Leaders of America."

parents, W you... can't stop for yourself, stop i middle-aged mon at the peak for your children", he says,

. Usually the patients are of their earning power, Dr. points out, "Lung is not only a waste

tion, " Chieffen learn more of smoking continues, ac- preventable." He claims that one-third of the people who try to give up smoking suc-

> Other ! features : of . Lankenau's' S.O.S. program include a counseling service for hospital in-patients and a request to employees, staff members and visitors to refrain from smoking except in designated areas.

NOW AT TELET OF CALLY CENTER.





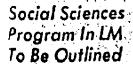
Five Deluxe Console Styles!



BEST IMAGE

intil then, he said, Br. soand ideas to sustain it."

The St. Joseph's Academy of Food Markeling, the only institution of its kind in the: U.S., was established in 1961 with the cooperation of the country's food industry, to rind ways of dealing with the problem of world hunger.



Adoption of the Greater Javoland Social Science Proram by the Lower Morion waship elementary schools, a Important introduction to no curriculum affecting ALL wilkelary grades, withtie incursed at the first Parats. Association meeting for 969 at the Penn Wynne School Diorday at 8 p.m.

Mrs. Theorore Wilbur, Dissict Coordinator of Instrucon, will be joined by Miss ly MicFarland, a social sciuce teacher from another Immentary school in the disict, in discussing the pro-

According to Mrs. Georgeuidstone, program chairin, both speakers bring auority and commitment. their subject as they have in 'directly involved's in · development, testing, and cont expansion.

In expected that Mrs. Wilr and Miss MicFarland will il out the educational phiophy of the program as il as its major contents and of experiences with " thus . Their announce :emo "Make the Wa

the meeting is to begin h ridreshments.



ROY NASSAU recently appointed co-director of the newly-established Community Service Group for the WFIL: Stations; will be the guest speaker at the Ardmore Optimist Club's, luncheon Tuesday at Viking Inn. Ardmore. He will speak on "Community Service Responsibilities of a Broadcast Station." Naseau will be accompanied by Ron Gold, television report-

LM Gets 2 Petitions For Zoning Changes

Lower Merion Commissioners have received petitions from property owners on both sides of Elliott Ave., between Lancaster Ave. and Old Lancaster Rd., Bryn Mawr, for a change of zoning from R-6A to C-L (limited commercial).

Stanley Goodman, owner of property on the east side of Booth Lane, north of Montgomery Ave., Haverford, is seeking a change of zoning from R-2 to R-7.

CLEANUP IN LM

Sweepers removed 855 tons of debris from 122 miles of roadway in Lower Merion Township last month, Work on a storm sewer at Winding Way and Montgomery Ave., mas completed. A

S.O.S. Plan Helped Studies Abroad Ahead For Two This Smoker To Quit Meadow La, Merion Station,

them nover smoke again.

fruit juices are recommend-

because they stimulate the

Drinking plenty of water and

fruit juices, deep breathing,

short walks after meals, and

warm baths or showers, are

a great help in kicking the

nicoline addiction. And it is

an addiction not just a hab-

it. This is not as difficult

as you might think, because

it is done with a purpose in

mind--to be free from the

During the day you will

look forward to the evening

group therapy sessions. They

are held in an almosphere that

is congenial and friendly, Peo-

ple working together to solve

a common problem is condu-

Food will taste better, re-

noker's hack, espe-

. the morning, will dis-

laxing will be easier, and

appear if you stop smoking,

your own, but it is easier

You can stop smoking on

cive to good fellowship.

bondage of smoking,

urge to smoke,

nearly 20 years. Now!'m down included withdrawal sympotor two curs of college day. to two curs of coifee a day, toms, which usually include the wark Twain, I've stepbed smoking a thousand timas, but it usually lasted only to two days. Believing that the wall power was just a little bit weaker than the next per placed by a sense of wellson's, I gave up trying to being and a feeling of accom-

The Five Day Plan to stop amoking consists of five meetings in the evenings from. 7:30 to 9:30 plus a followup meeting on Monday of the next week. A new session will be held at Lankonau Hospital beginning on Jan. 27. Dr. Wayne McFarland, who started the plan eight years' ago, and Horace Roading willconduct the course.

The plan is designed to help a person mentally and physically to break the smoking habit with a minimum amount of discomfort, Having the desire to quit smoking is half the battle, and McFarland and Reading make the other half of the battle--getting over the; craving tosmoke -- much easi-

Through the use of flims. and literature, Dr. McFarland offers convincing avidence that the chances of getting lung cancer, emphysema. bronchitis and heart disease are much greater among smokers than among nonsmokers, This, however, is only a small part of the Five Day Plan; the remainder is based on positive thinking.

"I choose not to smoke." you'll be saying with the others taking the course.

In some respects, the plan is similar to the principles of Alcoholics Anonymous, Everyone is assigned a partner to contact by phone every

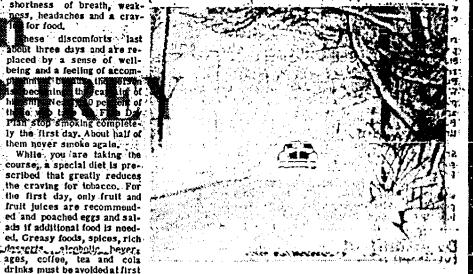
David To Sherson of 405) London College 3 76

MAHALINETIMES

g 95 salieri anrolled in mester Program established in cooperation with the City of : sity,

The two will leave Jan, 28 from New York's Kennedy"

Airport for 18 weeks of study -Sherson is a student at the University of Pennsylvanian Walter altends Duke Universita



Pick the right day to test drive a Volkswagen and you'll have the road to yourself.

Back when the weather was better, everybody was inviting you to come in and test drive their new what-

But now that the weather isn't so hot land a test drive is really a test), the invitations have dropped off sharply. Now maybe you can spare a little time to try out the new Volkswagen.

• : ;

Not right this minute. Wait for a nice lousy day. The next time it's snowing or stushing or something like that, Madrive down to your Yolkswagen dealer, ill you can make it in your car.)

He'll be hoppy to take you out and show you how a Volkswagen works when hardly enything else does.

How the weight of the motor on the rear wheels makes the VW dig in and go, in the snow or the mud, or

As you pass all the stranded cars that pass test drives in bolimier days, he'll tell you about the ... I's other cold-weather comforts.

The air-coaled motor. It doesn't freeze over, so it

BEST IMAGE

http://legacy.library.ucsf.edu/tid/zrg07a09/pdfe: https://www.industrydocuments.ucsf.edu/docs/gtgl0001

produced by RJRTC

BEZT IMAGE

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Saturday WASHINGTON, Jan rying to Secretary Benrapier 1

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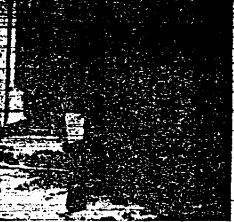
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Chamara said Rad The sable was slown from the in a dupatch from Pecking,
to spend the pole line, that captus it from Taonay and Rad China boosts. would Helsinki to Porkkals, 15 stiles two factor

Accidental process to the Pin-jed Peams test mouth and agreed would have a time to time, presumably inter-two chemical plants with a cu

Soviet Claims me Hordy Wheat

sacrificing the advantages of LONDON, Lin. In (Resures) Chinese. The contract would be published from the contract of the cont of compar effectivement at the wines meather, the Service many the service many possible cost.



Mrs. Incqueting Kennedy leaves rented home in Georgetown section of Washington for flight to Boston to attend memorial nervice for President Kennedy. Former First Lady is accompanied by her sister. Princess Radziwill.

U.S. Proposes Use House box ber at the satistic page or a the major of Danger Label on-ON SHIPS ON A SHIPS OF THE PARTY OF THE PART

on decrease advantage rater than March

photos the committee advertising later than attern . unlare ur deceptive advertising later than attern . The FTC streased that in made effective.

stroptes was called "maleit, un-M AD INCHEASE CHARGED In an accompanying matemant, the FTC charged that, the, cartobacco leader. RESEARCH URGED

IS. ALERT LINY, PRESIDENT OF Burley Warenouse Auring Ap 2000 million in the past 10 years describe mounting austica. Bell inland section, said to when it is beath hazard.

I one cases was basty "when it is beath hazard, it said, figures that more Jescarch is Accordingly, it said, figures are considered. Washington-to-obvious that more research is

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"Others deported during the during the reat." A respected these of Criminals and "incides Gle Folish teachstowns included Gueseppe sive-Communat. Am Crimili, whence convictions in the Detroit stree, a Child armost Richards rothers, Roderquest Esbanab and United Barting, wanted by Cuban anhanctor in the Criminal Barting. "Structory and usit agent."

"Also in 1983," the Attorney General Bard, "De Suprems 2000-Lb, Kell Surfer against John (Bathback)" HARVARD, II. Ja 1986, a freshing ton and the Court upplied a density and the Court upplied a density alternation of the Court upplied a density alternation of the Court upplied a density alternation of the Court upplied a density alternation of the Court upplied a density alternation of the Court upplied a density alternation of the Court upplied a density alternation of the Court upplied a density alternation of the Court upplied a density alternation of the Court upplied a density alternation of the Court upplied a density alternation of the Court upplied a density alternation of the Court upplied a density alternation of the Court upplied a density alternation of the Court upplied a density alternation of the Court upplied a density alternation of the Court upplied a density alternation of the Court upplied a density alternation of the Court upplied and the

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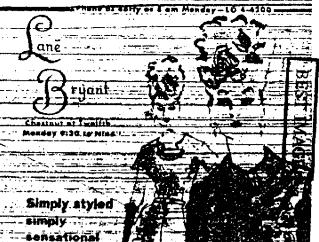
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ASK ABOUT OUR RENTAL PURCHASE I

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FCC Seeks To Outlaw (Vigaret Ads

Smaling Blomed For Edidemic of Disabilities

TON. Feb. M. TEHUZ Federal Communication Commission pro esday that cigaret advertising be banned from radin and television on the an country of death and ground-that smoking causes:

Conference Commission 6 to 1 to favor of the magnitude ast the opposible

'65 LABOUR G ACT
The Cas Digaret Labeling
Act white appres July 1, requires a health hazard warning on cuarret declares but ex-pressiy publishts any federal; Diazzi). ncy from restrict residato ing states advertising. Some feliar the law expire to favor wernment to reing or probibit it ate: anvient Altoperen

otherwise the the statutory astronomy of the property calores any of its While live contended the FCC proposed magnificants, he left no doubt the commission wanted in this case the but Congress and the bring cast industry on nouse about his manager by it views the undespread use of eigeret advertising on radio and relevision.

UP TO CONGRESS Obvinusly heping that. 1965 law with its restrictions on FCC and FTC. Hydo said he enticipated a full congressional review of the contraversy ever smeating and health, but he con-creded that this "is a motter is which Congress will be the final

FCC Proposes Rule Banning Radio, TV Cigaret Commercials

ings before one final decision is

The Politice Institute, the trade approxim for the tenar-ce companies, replace that "in the prejent state of screetific imowiedly direct amoking and brakin, the ruling contemplated by the PCC would be aredrary in the extreme. Furthermore.

Hyde cited Health, Education and Welfare Department statis-

deaths a year from lung cas-cer and 25,000 deaths from em-

bysems and chronic benachi-

In the lace of this kind of

ing, we believe action for," Hyde said.

of wnether cigarets

be low in tar and are

nner in which the FCC

Repreposal means time

afting and pessibly public bear.

fliotred for comments.

on Page 31, Column 2

wnether eighrets

tis, and that one-third of all deaths of men between as and

related

The National Association of Breadcasters, a lake group for the radio and television under-try, said: "The artiso is without precedent. knowledge has there been a ban proposed by an agency of the federal movernment on the advertising of a product whese sale is legal,"

In Concress, lawmakers from Southers tobacco-growing states quickly chaheaged the FCC's

proposal.
"The supreme example of bur-easerate throapy," Sen. Sam J. Ervin Jr. I D., N. C.; called it.

BRITAIN IS CITED

One prominent tehacco industry official in North Carolina, who declined to be identified. said he did not thank the proposed ben on smoking ads would! have much effect. The only thing the industry adjustines on ra-dio and television, he said, are sen blagaert syncy don't have much tobacce in them." Taxes are what the in-

destry really fears, he said. Heath C. Kiger, chief tobacca mentalist for the Agriculture Department's foreign agricultore servici. saul a combination of tulumelties pusperty and a holdivertising policy in Britain has not reduced eigenet tales there! But he and sales nave remained stead, during a time when an senial murcout of 5. to 7 percent might have been experied.

WONT: MLRT METWORKS First word of the ECC pro-peak come from Sen. Frank E. Mass (D., Utab., a Mormon who proposed in the Scente so Fri-day that the 1965 labeling low should be allowed to der. The law requires the statement, "Caption: Cigaret smoking may be hepaydobs to your braith."

m each pack. the agricy's ansouncement is mid, for this point, even to see abovious threat to wurp the: grouped administrative actions, congressional function."

LEGAL PRODUCT

13 years missent, wears to purpose administrative actions, congressional function."

15 years missent, wears to purpose administrative actions.

> A spokesman for Advertising Age, an industry journal, said in New York it was not expected that the networks would no al fected to any great ratent E the FCC proposal west into ef-fect. He noted that the sincere companies generally buy primi time and this would be wicked up by other advertisers if vacated by the cigaret makers.

In New York stock market spalysts said the savengs from television advertising would bring instant earnings increases to the tobacco companies.

Although industry competition would force the compours t sten up auvertuise in other media, the annitate reason. the price would not be searing as high as ratio and televisions costs

"Medical and accoming opinis has long recognisted the castal relationship between cigaret amoung and lung cancer ..." the statement said, "If the FCC proposal in carried out it will be a vital contribution to public heats and warrants wide public support."

The secrety also commended the television and radio media for increasing the volume of asticizaret apots and programs and urged that the apots be con-tinued "whatever happens to rigaret advertising."

http://legacy.library.ucsf.edu/tid/zra07ta00/pdfvw.industrydocuments.ucsf.edu/docs/gtgl0001

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disease blamed on cigarettes

Phile. Inquiror

lung disease.
A new link

Smoking

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produced by RJRTC

Battle Against Cigarets

Don't Light That Match. Recor

Fram more about how to stop.
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decided to write to not the wi

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Every time you think, bond seed a sto k, you sit back, light sp anoth "well it er, and say, "Well, after this motion oppack, I'm quitting buts, m. the intentity. I know. I've tried, but I still raising the reach for that connection.

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cigaret — ya bear a recombinate of seasons of the lif effects of seasons of the life of pass up the cigaret.

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Tont strike that match, said a recording. Don't light that citant. You're on the right fract. Just slick to was

ing said mouth, as I fiderted nervously for our with a bonk of matches, open-

C. Danke the recording for the Tuficiand Derculsus and Respiratory Disme po case Association. She is an emipagh, mer chest specialist and a fortion, addom

former smoth; the voice said.

name of Dr. Struggis should have, thought if a president of the Debug

Cen CREST AIR.
Deta Available

belonged to Dr. delphin, the voice added, its Women's Mr. whose information on just the Women's Mr. was a feet to be women's Mr. was a feet to be women's Mr.

have given up smothing flash of the match, I towndam continued cigarette and took a pull, our I say, Since you "I'll just finish this pa

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produced by RJRTC

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can tell." he observed. "See smokers are aggressive shout as smokers are aggressive shout as and they never used to have with it."

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I issue.
I said Subitably observed that the and for persistence belos on a why shart treatment programs programs without follow-up ulticly fall for so many.

o to Quit

rhich involves the filling in a form on ow many cigarets you plan to schoke each day, and how many you estually moked. Participents are instructed o wrap the form around their cigaret

have to expecter important paynal factor.

have to expect some distress serrupting a habit," Sushinsky
d. "Any tinke you begin reduccompulsive activity there may some distress — anxiety, a f uneasiness — because you're ag nonething you've always

TTBI ETPIZ

Phila - Bulletin

ere's no doubt left about the

JAN1? 📆 second live with joggers; food stores and fitness and diet that 54 million Am e statistic comes f new Surgeon' General's report smoking 100 320,000 smoking instance smoking 132,000 smoking heart and cancer deaths a year.

In a bittingnood willy? istry///www.incified Limin lly pooh-poohing it plus a ying to make dealth-Education and Wellare S

Joseph Califano look foolish. Mr. Cali-Jano, we believe, penetrated the haze by remarking that when opponents lack facts they turn to personal attacks.

There is some reason for optimism: The percentage of the adult seeles who smoke is down and so is per capita consumption of cigarets. Thirty million have quit. But increases in smoking by women and young girls and the impact on their houlth and their unborn children are. cause for special concern.

The addictive hold of cigarets is only part of the problem. Compounding it is the potency of the tebacco industry, with an-advertising budget of about \$500 million a year. The Tobacco Institute, its effective lobby, spends \$5 million a year.

Mr. Califano spends only about \$30 miliion a year to counter all that. More disturbing, though, is what seems to be nolitically inspired ambivalence at the top of the Administration, While Mr. Califano fires his saives, President Carter

keeps being photographed in a cap bearing the emblem "Grawers Warehouse 646 Wilson.

For the uninitiated, that's a tobacco warehouse in Wilson, N.C. Tobacco growers and workers all over his native Southland see it as a message: Tobacco industry backing.

They interpret this as meaning no tampering with the \$65 million price supports and other subsidies that, paradoxically, the government annually gives tobacco growers while Mr. Califano tries to get people to kick the habit. Couldn't the government be trying to steer the growers into other crops instead?

-HEW will sponsor more antismoking ads, proven to be effective, and school programs - all to the good. At the state level, further pressure is needed to enact smoking bans in public places. They may or may not cut cigaret use, but they help clear some air and any advance egainst the blue cloud is welcome.

Ky. trucker held in 27

deat

By flob Sector

RADCIJPP, Ky.—The driver of a pickup truck was charged with 27 years of mander yesterialy after as-filorities mig film tests showed he was drunk when his yeatcle co-

was drank when his vehicle co-recred the wrone way down as in-terstate highway and ploying time a crowded church bus.

At the time of the crash site Satur-day, Larry Mahone work chemical worker from Wrighwille, Ky., had a bland alcohol levial of 24, puerly 25 times the legal it in the common-wealth Attorney with Ackman and. Ackman said Militoney could lace the death benaity at Saturdantity of

the death penalty of franciguity of the charges, brought to the the charges, brought the maje of the worst has accidents in U.S. history. The collision partial that the proposions and a fireball that killed 2 people, icenagers and additionary ones from all days. Radcliff returning Cincinnati.

incinnati. More than Market seengers were taken to improve including eight who yesterday is so will lasted in critical condi-was here in the crash. His condition was appraised from critical to serious yesterday as authorities moved to deny him hall and beginning stoming him in a guarded Lamente Linguist

Meanwhile, investigation from the National Transportation Safety floated across in mean the near the finand arrived in the time, mear the seene of the accident, in scarch is the charred and twisted highs of the two vehicles for chies to the teracity of the blast.

During a news tenter nee last night, the investigator and the converted school has use the have a printective eage around medical tank, as required under feature safety re-Calciy renuirement.

icred along with the mayor's proproprietions Committee, and during a news conference in Hackwell's of-

In a lottor-responding to the coun-

ctimen, Gonde termod the propusal arbaraighted plan.

"You have called for a change in philosophy — for isadership and a demonstrable willingness to face the city's tough financial terms. Yet your plan is more of the same — unresistance with a programm copy which we tic_cuts_in_programs_over_which_we have no control, anwillingness to Me necessity lax rovenses, and a reluctance to seize savings from

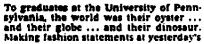
productivity gains when they are quartily before you," Goode wrote. Goode's letter, released late yesterday, aliaded to a plan that he had proposed yesterday to Street and blackwell, which reduced the pro-posed \$165 million tax increase to \$142 million, with \$17 million still going to the school district.

The mayor's compresses also included a \$20 dillion across-the-beard reduction in function for city agencies, \$600,000 landers from the Mayor's Office and 75 million reduction in a proposed \$44 million sectal (See 2012);77 m 7-A)

prostened by Lings I-B. alternative tel pro-









commencement were (clockwise fro: right) Frederik Anderson, Jonathan Sel zer. Jeff Walker and Jim Robles. Stor and another picture on Page S-B.

idney funds bypassing patients

Dy Matthew Pure

in 1945, a saujor conclumerate took \$21 miles in federal funds ad book suppopriated to frest it instead to finance a due m arrest his ney dialysis the sation's l COMPANY.

A federal audir concluded that the use of money from kidney freat-the deal was imment program

All of this hight have he

Dialysis:

The profit machine Third in a series

The commission that delivered the "War on Waste" report was headed by J. Peter Grace

So was the conglomerate

That some year, a kidney dialysis chare in Pacific Rico metad by the new W.R. Grace & Co. subsidiary had a very profitable year.

A lederal program paid the chine \$2.5 million in 1955 to treat about 140

treatments according to a government audit of the clinic. What happened to the other \$1

More than \$500,000 of it was straight profit for the chine. The remaining \$400 thin went to pay plus sicians' salaries that federal auditors deemed excessive and coffestate expenses that the andmore determined

had milliong to do with patient care to short tederal anditors deter gritted that the climic was paid 19 percent more than the actual cost of the freatment that the covernment set out to provide

And the profits care at a time when the patients in Pherto Rico

were worned that their I being jorquirdized by th customing measures For patients at another dialyst the island owned by the pany staged a strike - en their own health by retu third freatment to dram CHILL'ER

that chair officials would They said the beleful go was not providing cumigle the treatments

The federal government provide the dialysis for a of kidney disease has fur tremendonsy profitable between 14ALVSS on

Koop cells nicotine addictive drug; urges stricter regulation of tobacco



C. Viverell Knop

Hy Susan Okie

17,1988

WASHINGTON -- Research has eslablished firmly that nicotine in tobecco products is an addictive drug comparable to heroin or morphine, Surgeon General C. Everett Koop said yesterday. That addictive quality should be reflected on eignretic warning labels and in government sticies on the sale and premeters of

policies on the said and primition in inhaces, he said.
"Our nation has mobilized enormous resources to wage a war on drugs." Knop said in releasing a dispage report. "We should also give priority to the one addiction — to-beech addiction — that is killing more than 300,000 Americans each more."

About 51 million Americans iod cigarettes in 1985, a 37 percontractoese over a decade, accord-

ing to the repairt.
Compiled by more than 30 scien-

tists who combed more than 2,000 research articles, the volume summerizes the current understanding of mentine addiction and its teentment rather than breaking new

Anti-smoking activists said they expect the report to provide powerin new ammonitum in suns by smokers against tobacco companies and in legislative efforts to restrict promotten and tighten regulation of

Hobacca products The report calls for a new warning label on countette packages and advertisements, stating that the producis contain nicoline, an addictive drug Legislation to require such a warning has been introduced in both houses of Congress.

The report also says insurers should pay for treatment programs to help smakers junt as they do for-treatment programs for alcoholics (See TBIACCO on 4-A)

Weuther & Index



munity gardens in padiocked as neigh burbeed residents watch the growing scason pass Daily Magazine, Page 11.

Showers or thunderstorms possible today, tomade and tomorrow linds "0 to 75 today | Low in the mid-50s to night. Pull weather report, Page 12 F

| National/Interrutes | nel fections A, D, F |
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| Metropolitan | |
| Sports | Seriem D |
| Doity Magazine | tentun E |
| Business | Sen terri f |
| Ten Arts 3-E | Nonemans 2-0 |
| Classified 1-C | Otential man 11-0 Protein 13-F |
| Convey 19-F | Property 53-F |

Benny-Ge 400 never

NEW HAVEN, Coon. versity yesterday aunoninof previously inrelessed by Jenny Goodman from (collection of the late jaz-

The tirst volume of 16 being made available to was wheeled from the Co material bequestited to tandman's death on June

The collection includes tayer that Greatman record not talease throng a 60-ye career, said thould E San me professor and librar: John Hernek Jackson Maat Vale

Samuel and the records best of the best " page pa clarinetist, who played insacid mustic

http://legacy.library.ucsf.edu/tid/zrq07/p0/pdfw.industrydocuBESTS.INAGE/docs/qtgl0001 51973 1879

tes surrender as standoff ends at Mack Alford Co

f prison. According to an s. the uprising began Friday.

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g the three-day stege in splayed machetelike kni des about 12 inches long, an edsheet, banners were som the roof of the two steery where the hostages were

The first sheet said the power. A second said. The power is a second said. The power is the control of the power is a second said. The power is a second said the chird squasted help from media.

media.
"I feel like the inmates de tha for attention of ell said.
"White Power" banner. "Aso, i feel like we have some racists un there." S

State Rep. Gary Coffee, one of the state legislators involved in the gottations, said the riot started white inmales accused the rolling from them. But said res. Kennath Converse, another necotic

Facility in Stringfellow, Okla.

tor, downpisyed the racial angle. "One of two individuals can make it look like a racist deal." Converse said. "It's not a racist deal, and it's not an avercrowding issue."

State Corrections Director Gary Maynard said he believed the rion was sportaneous and was not primarity racial, although he acknowledged that the original fight was between blacks and whites

"It apparently was a fight over a property issue between blacks and whites." Maynare said. "It escalated when our officers tried to arrest the master in master. It doesn't seem like it was negotias."

Koop: Nicotine addicts; more regulation needed

TOBACCO, Irom 1-A

and those addicted to other drugs, iteasy schoolchildren should be thught about the health risks of tobacco products and nicotine addiction as part of routine health education and urges stricter enforcement of state laws banning sales of tobacco prodfrens to minors.

The tobacco industry has long dispured the notion that nicotine is addictive. It fought successfully against inclusion of a warning about addiction in 1984 when Congress passed at law mandating several more specific rotating labels warning about other health hazards of smoking.

The Tobacco Institute, a lobbying association for the industry, said in a statement yesterday that the new report—"frivializes libe-serious_drug.problem faced by society."

"The claims that smokers are addicts' defy common sense and confradict the fact that people quit smoking every day," it concluded.

Asked by reporters about the institute's statement that the report 'trivialized' the instants grup problem. Koop pointed to an enormous bar graph beside the podium comparing the 320,000 deaths caused annually by tobacco products with the much smaller numbers of deaths caused each year by alcohol and illicit

"I don't think there's any way you could consider the problem that we have as trivial," he said

Evidence that accounce is addictive comes from studies of the drug's biological effects upon-the brain and other parts of the body and from research on behavior patterns associated with tobacco use and withdrawal, the report says.

drawal, the report says.
According to the report, mentine acts on specific receptors in the brain and other parts of the nervous system. It also refaxes skeletal misseles and affects the heart, blood vessels and hormonal system.

Like those addicted to heroin or cocaine, nicotine addicts use that drug compulsively, develop more ance to it and suffer physical with drawal symptoms when they try to quit, the report and Although many smokers. It is many drug addicts, quit on their own, they also show relapse rates similar to those seen in addicts who withdraw from illicit drugs. Koop said:

Among factors that make nicotine.

Among factors that make informed addictive are its mood-altering, arcso-reducing proporties. The report said smokers perform better in some cognitive lasks after shoking a cigaretic.

cigarcitic.

The drug also apparently helps to suppress appettia. Smokers, on average, weigh about seven pounds to than non-smokers, and often gain weight when they quit, the report said.

Asked whether his report would antagonize smokers. Koop sold, "I think it would meen, in general more sympathy for the person who can't out."

mantismoking activists said the terport would help lumer smokers toing tobacco companies because they suffered damage to their health.

Lawyers for tobacco companies in such suits "depend almost entirity on partraying the smoker as baying freedom of choice." said Metth, will be a sufficient of the Coalitien on Smoking or Health. "Addiction throws that out completely."

Rep. Henry A. Waxman (D., Calit), chairman of a House health subcommittee, inid reporters, "The eigarene industry is a multibilition dollar drug empire."

Waxman and other members of Congress urged action on several measures, including bills granting the Food and Orug Administration regulatory authority over tobacco products, banning all tobacco advirtising, raising the eighreite excessions and restricting sales in minors.

s trask arched

to incensed to discover — whether a neighbor, a rine a detective — scripting sealed trash containers to risons detail of our personal

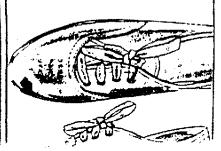
ntempting to show itist no expectation of privacy in recalled the 1975 seizure of immer Secretary of State inger's trash by a republication who

rine about his findings, freman countered that "the response mundly condemn-reporter" showed that sociognized the incident as an inable invasion of privacy, for action yesterday, the court use steps:

of the a milion that the

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《李明·李文》

Ban on tobacco unlikely in wake of study, surgeon general says

WASHINGTON (AP) — The surgeon general decisive the herein and receims, but he sensitied this herein and receims, but he sensitied that it was inside, but he sensitied that it was inside, and the latest that he was a sure of the sensities of the sensities of the report by C. Everett Kaopin and the fit servells new scientific evillettes that he organized existing research toto a systematic primaristics; lumping alcotine with helmanticalise as physiologically addictive substances.

"Careful axamination of the data makes it clear distribution and piler forms of saladingly addictpiler forms of the process. "An ing," Koop wroten of research has shown that michigants are in tobacco that capes sentence.

"Moreover, the process that determine tobacco addition are similar to those that the process of the sentence addition."

Although his process continued addition."

Although his section cas nico-line in assentially the same medical the in assentiatry the same medical category as those two lilicit drugs, Koop noted that tehacoo has a "he-vored place" in the United States and is not likely to be samed.

"I don't think we are every going to get to a point in our to be been been been as the same of th

suspends

campagen

helm of his finad

Robertson 🖣

VIRGINIA BEAGE VA (AP) -VIRGINIA BEAU.
Pat Robertson suspension his Republican presidential security today with a bow toward Goode Bush's said he

with a new toward said he "magnificent effortunate said he would immediately return to the would immediately return bled reli-

helm of his finance and bled religious broadcasting setting he.

Two months after the per Tuesday primaries ground to a halt Robertson's "invisiting army" of fervent supporters, the desire television evangelist formally took himself out of the OP pecsidential

"Today I suspend my candidacy for the Republication my candidacy for the Republication in 1988 but I do not accessful I ever suspend my advocate a talestvative and moral principles," Robertson said in front of his Georgian-style mansion. "George Bush has seen the accessful."

has won the nomination. I applaud his magnificent effort and warmly

endorse his candidacy

we can bring about prohibition of tabacco," he said. "I don't think this weaked be a proctical solution. I think we hermed this during the prohibi-tion on alcohol."

we increed the curing the production on alcohol."

He said steps should be taken to protect children" from being exposed to micotine, noting that 43 states siresdy have leve, albeit "poorly enferced," against the sale of cigareties to minors.

"I think we need a license to sell tehecco just they way we require one to sell alcohol," seld Keep.

Asked later where he would set the age on faming sales to young people, the libraries at different absent set different and seld that practice probably would continue with stricter anti-tahefox lows."

"I would did it it a about 73," added the 71-year semigation.

The report keys aboutine can be

"I would get it he about 75," added the 71-year manufaction.
The report says miretime can be addictive no phread live it enters the bedy, noting language is it enters the bedy, noting language his blood stream through about your in he mouth and that pipe and clear emokers who do not inhale a phread in the language is the same kind of alboration.

Basetion manufactificant predict-

tioned the surgeon gen-

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Amply teations

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encorse au candisacy."
Robertson said he filed incorpora-tion papers today for a new political action committee called "Americans for the Republic," a group that he said would be "a railying point for future political action." Rebertson also said he would return to the Christian Broadcasting Network he founded two decades

eral's findings should compel federal and state outherities to trent tehence as the addictive drag that it is," said Dr. Alan R. Helsen, chairman of the board of trustoes of the American Medical Association.

Medical Association.

Nelson said federal and state authorities should raise the age of these allowed to purchase eigereties, to 21, ben the access of teneces products through vending mechines, takel to hacco products as addictive, han the advertising of teneces products and regulate the development of new micetine products.

In a statement today, the Tenacco Institute said, "Emoking is truly a personal choice which can be stopped if and when a person decides to do so. The surgeon general's own Public Health Service figures indicate that about 49 million Americans are former amokers and that 95

are former amokers and that 93 percent of them quit amoking with-out help. These figures, and common sense, contradict any claim that smoking is an 'addiction."

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in a letter, Justice Depart-nt spoksomen Terry Eastland e Priday and that he had de-ad Meese "to the best of my ability" while "exercising good judgment and acting in a manner consistent with the obligations of this office.

"You have concluded that my efforts have not sufficed," Eastland wrote the attorney general, who had appointed him public affairs director in April 1985.

In explaining Eastland's dis-missal, Meese told reporters, "Ba-sically, I decided this was a good time for a change in leadership. This was a matter bestcally of my determination that for the rest of the year we could use some new leadership."



Terry Eastland "Difficult" to defend Meese

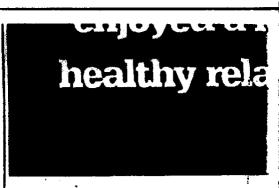
independent counsel James, McKay is expected to issue a report raising numerous questions about Meess's ethical behavior, nources familiar with the probe have said, and "someone like me and as the laddings." In what

eriminal probe was hurting the

Mason has been the facus of a eriminal revertigation by inde-pendent counsel Jamer McKny launched on May 11, 1987 into the attorney general's ties to scandal-plagued Wedtech Corp. and his involvement with a \$1 billion Irasi oil pipeline. Three hours after Eastland

publicly released the letter to Messe, the associate head of the public affairs office, William Schambra, quit as head of the unit that prepares speeches for the attorney general.

"I am . . . perplexed and deep-ly disturbed by the attorney gen-eral's decision," Schamber said in a resignation better to Eastland, "This denaytome at all a This department simply could not have asked for more conscientious and effective a spokesman ... It is simply astonishing to me that this formed the grounds for your dismissal."



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Pat. May 17, 1988 p. 43:1-2

New arnings on cigarettes urged

From staff and wire reports

WASHINGTON Surgeon General C. Werett. Koop's declaration Miterday that alcotine is additive like heart, and cocaine prompted quick duction of prompted in to require new warnings on cigarette propagate.

cigarette product.

It also sever aground swell of support true
health and anti-smoking groups and a firest
protest from the tobacco industry.

Eugene R. Deliatt, president of the Arminia Lung Association of Central Pennsylvania, asia Koop's report "points to an urgent aged to screenly children and to be a remained by the state of the country additional are caused by transfer smoking user year."

Deliatt quoted national arranged showing that 60 percent of all regular smokers by the cigarettes transfer and that more than 90 percent of all smokers are booked by age 19.

Koop, at the start of a 618-page report that was so surprise to researchers, said, "Careful examination of the data makes it clear that cigarettes and other forms of tobacco are addicting. An extensive body of research has shown nicotine is the drug in cco that causes addiction.

"Moreover, the processes that determine tobacco addiction are similar to those that determine addic-

Those three sentences tacitly acknowledged that

These three sentences tacity acknowledged that the report was based more on a review of existing research rather than on new scientific findings.

"What I think we have to do and understand is to put it in its political content," said Reggie Lester, a spokesman for the Tobacco Growers information Committee in North Carolina, the state that produces 67 percent of the U.S. tebacco crop.

"This is not a scientific report," he said. "All this is a commission of recent literature."

this is a complication of recent literature.

Privary doesn't extend to trach, court decides

Associated Pres

WASHINGTON — The Su-preme Court filed esterday that the privacy relative mericans enthe privacy rights mericans en-

joy do not extend to discarded garbage, allowing police to search trash without a warrant.

"It is common knowledge that plastic garbag bags left on or at the side of street are readily acceptable to animals, children, scaemers, snoops and other members, at the public," said Justice Byron R.: White for the court in a 6-2 ruling. the court in a 6-2 ruling.

"The police cannot reasonably be expected to avert their eyes from evidence of criminal activity that could have been observed by any member of the public," he said.

The ruling reinstated charges against a California man and a female companion accused of possessing drugs for purpose of sell-ing them. Police discovered evidence of narcotics in garbage outside the man's Laguna Beach

In a busy day after a twoweek recess, the court also:

Let stand a ruling in a case from New Jersey that pregnant prison inmates have the right to

Ronald W. Pelton, who sold surveilland veillance period to Soviet agents.

— Agreed to hear appeals by
13 make of carpanies who say
they are some perced unfairly to
pay tens of millions of dollars in
taxes to New Jersey. The court's
ruling, expected in 1989, will be significant for state treasuries.

Ruled unanimously that the Federal Communications Commission has exclusive authority to regulate the technical quality of cable television signals. The court refused to let state and local officials impose more stringent requirements.

In the garbage case, White said people do not have a "res-sonable expectation of privacy" when they place even scaled, opeque plastic trash bags at curb-

The ruling, however, does not condone warrantless police searches of garbage left on pri-vate property in close proximity to the home.

The Constitution's Fourth Amendment, which generally requires police to get court search warrants, does not cover instances when there is no legitimate expectation of privacy, White

If You're Losing The Tax Deduct Interest, Here's The Smart Way



Booher, 13, credited Mard off my shirt, and be ed it for bandages. ... He pur people, He was like a doctor.

sty with "saving a lot." Hardesty shed burning victims from the s and Booker said he then refled

left said Hardesty and Albes Ten-per, 15-year-old son of the directed

wire to have as director

pendent counsel based a repart italing Meese's activities before citing whether he would heave.

Surgeon general says nicotine is highly addictive like heroin, cocaine

ring the past decade, as refere

re cheelh in this country." consing ore than 188,000 such cheelbs each

decase impact of smokia

ered at least as

Reaction was swift and predictaestions without delay." Koop said.

nam, the tobacte in-

e si Zuppeus Swiddogs --

Although details of the report ore not made public until today, he of the many federal health offi-

is it appropriate for free samples

INSIDE TODAYS TIMES

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DEATH NOTICES

OFELSIO, John (Bushels) DINGES, Ruth E. Harine ESHEAUGH, Malie Docothy FITZGENALD, Gerald J. GIFTORD, Elsie Gray

GORNEY, Sophia (Cyganowski) GRACE, Francis, J. W., "Frank" KRASINSKI, Max H. LARTU, Saimi Mantyla MAZUR, Roberta Barber

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BEST IMAGE

51973 1883

EDT May 16, 1988 p.1A:1-6



determine the possibility of eancer of the lung.

And other tests before diagnesis is made. will also probably have



A one-stage pneumectomy—the removal of an entire ke performed at New England Desconess Hospital, in Boston,

We Check the Rising Lung Cancer? By STEEN M. SPENCER

Lang-cancer deaths among men have doubled in the last Ateen years. Whenever the reasons for this alarming increase? What hope the doctors offer to those afflicted?

MANUGH is usually regarded as a trivial thing, anneying to the cougher and to con-ment audiences, perhaps, but nothing to get worried about. Sometimes, however, a manufecture trouble knocking at the door of your cost, and you'd better enswer the knock with

Friderick Ricci, a compact, middle-aged restau-rant North Providence, Rhode Island, is alive and greeting his customers today only because he did something about his cough. He, too, thought at first it was only the lingering scho of a cold. But one night he coughed up a bit of blood. That star-tled him. He telephoned his cousin, a physician, who came over, prescribed medicine to ease his throat

and said he'd be back next morning.

By that time the cough had disappeared completely, and Mr. Ricci felt fine. But the doctor had not forgotten the warning sign. "Where there is smoke there is fire," he said. "You'd better go to a hospital, Fred, and have a thorough checkup.

A lew weeks later, after X rays, bronchoscopic examinations, blood tests and more X rays, a Boston chest surgeon removed Frederick Ricci's left lung. It contained a cancer. That was more than six years ago, and since then the genial little restaurateur bas been doing very well on his reduced volume of ven-

tilisting equipment.

He is one of several hundred individuals in this country who can somiort themselves with the thought that half a lung is better than no breath at all— which would have been their almost certain iste had not the cancerous organ best removed. And thousands more will be given the chance to make the same choice, a little shortness of breath instead of a grim shortening of life, once the full story of lung

cancer becomes more widely known.

Reaching these thousands with the right part of the story, the bright and eccuraging part, singling them out with every available diagnostic aid and rushing them into the operating rooms of qualified chest surgeons while there is still hope—this is one of the most urgest tasks now lacing the medical profresion. For cancer of the lung is today one of the commonest of all cancers. As a killer of men—in bom it appears at least five times more frequently m - it stands meer the top of the cancer column. The American Causer Society, citing nationwide figures for 1946, the last year for which such detailed statistics are available, shows that among the \$6,801 men who filed that year from can-cer, the malignancy was in the stomach in 15.964, in

the prostate in 10,616, in the intestine in \$929. the lung or bronchus in 9877. Thus, pulmone cer, with an annual mortality of 14 per 100. the male population, was practically even a testinal cancer—14.1 deaths per 100,000 mal the third most destructive malignancy in ma was not far from second place. It almost o as a cause of death, the combined totals of th two on the list: cancer of the rectum and or the liver and bile passages. It is most premen over forty-five.

What is even more disturbing is that a records indicate lung centers is increasing far more rapidly than is any other form of nancy. In the male half of the population there rate of lung-canoer deaths has doubled in the fifteen years and it is now more than five thigh as it was thirty-five years ago. Some ties say this rising curve only reflects diagnosis and more thorough sutopsies, a suggest that in the past many deaths were h tuberculosis which were actually lung canon? equally eminent medical men refuse to so explanation and insist that the increase is any event, no one questions the present me and seriousness of the problem.

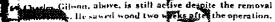
On the assumption that the incre

reasons for it are being sought in possible producing elements floating around in our bi dustrialized, motorized and radio-activate ronment. And several investigators believe more then a chance relationship in the upowing of cigarette smoking and lung case as taken place since World Was I. Whell is cause or coincidence still remains to be Obviously, if one or more environmental is be nailed down as contributing causes of lung the way will be opened for a preventive

Meanwhile, the main emphasis must be ment. And one of the first obstacles to over the attitude of despair on the part of many] and physicians. Such an outlook is not ber plain. One has only to review the history cancer. It makes some of the most dismain the whole book. In the first place, a tumor, up in the lung is an unbelievably silent inv early growth may cause less commotion the The warning symptom of cough, blordy 🛣 wise, does not always appear as soon as Frederick Ricci's case. And even wher a s

BEST IMAGE







A close postoperative check is kept by Doctor Richard II. Overholt on his lung patients. The earlier lung cancer is treated, the greater the patient's hope of recovery.

cted or proved, there wa thing the doctor could do about it per 100,000 y even with 1,000 males cy in men of lang cancer was of purely ; always a sentence of de

e in 9929 and

cy in men.

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the studion has changed. Tumpt ionger hopelessly elusive or hopelessly death sentence can in m to his with one lung, which Mr. I cheerfully testify is Almost

that mortal creasing its form of up ton the report patients have been able t their golf, although not en physically ambit mass arles M. C. Hain, Massachusetts, Mr. Gibson, a rem of five grown children and grand, s, is a tall, lean man who bled in the an five time). Some author aid eagle and who is apparently al-He boasts that he was pushi reflects shall spaies, and safterhistight lung was a nd that he had finished the paies, and ha were lister more weeks. He was then sixty-right ng cancer. Our se to accept rease is real resent magnitude. med, "because I was goder job - leveling off twend here did for filling in my yard." He did ice is it I give a little extra ha pickax I get a little twinge in the

possible con in our highly pactivated so believe the ents and techniques have belped ighter picture for the lung-cancer in the parting cancer.
I. Whether is the more assiduous use of the X-ray e bronchoscope, the slender tube h the doctor peers into the main airthird is the method of detecting nental factor tions coughed up by the patient ses of lung 🚭 the bronchoscope. The sharpness of ventive attad a permits the statement that "of hose originating in the lung must be on the fire must readily discovered while still lo-les to overcome confined." This significant assertion was retes to overcommed. This significant assertion was re-t of many lay made in the Journal of the American Medical is not hard the lone by Dr. Richard H. Overholt, professor ne history of the part at Tufts College Medical School and one dismail reader. The active leaders in the campaign against

, a tumor start cancer. He is the chest surgeon who a tumor starting concer. He is the chest surgeon who tent invade upon Mr. Ricci. One of his associates, ion trains and more M. Woods, removed Mr. Gibson's lung, roudy or to be femaled to be femaled to be femaled. In the femaled, relatively and and effective,"

Doctor Overholt added, "Therefore physicians have the tools with which to find, label and successfully treat cancer in this location.

Behind those words, "feasible, relatively safe and effective," as applied to removal of a lung, lies a history of early failures, heartbreaks and eventual triumph in an area long regarded as surgically forbidden ground. Opening up the chest was usually an emergency maneuver carried out to reach a wounded beart or lung. The first removal of part of a lung as a treatment for tuberculosis was performed in Germany in 1881, but the surgeon was so stricken with remorse when his patient, a woman relative, died that he committed suicide.

As late as the 1920's, which saw great improvements in thoracic surgery, most lung operations were limited to taking out one lobe. As the right lung has three lobes and the left two, this wasn't always enough. Often the cancer had spread to adjacent lobes, visibly or invisibly. Nor did X-ray treatments cure lung cancer. Radium needles placed in the lung tissue also failed.

The chest surgeons set as their goal, therefore, the emoval of the entire lung on the involved side. Sporadic efforts in this direction were made both here and abroad. One of the strangest procedures, tried in 1931 by a German doctor and in 1932 by a surgeon in Michigan, was to tie a cord around the root of the lung and let it shrivel away. This was done for infectious conditions and not for cancer. bowever. And it was not generally accepted as a satisfactory method.

Then came the year 1933. For chest surgery it marked the beginning of a new and brilliant era of lifesaving. In that year, three American surgeons, working independently and in different parts of the country, first succeeded in checking lung cancer by taking out an entire lung-a one-stage pneumectomy, as the operation was called, In St. Louis, on April fifth, Dr. Evarts A. Graham performed the operation on a fellow member of the medical prolession, an obstetrician who lives in Pittaburgh. In Baltimore, Dr. William F. Rienhoff, Jr., operated, on July twenty-fourth, on a girl of three and a half, and on November third on a young woman of twenty-four. In Boston, Doctor Overholt's first neumectomy patient was a housewife from New Hampshire. The operation took place on November

PHOTOGRAPHY BY GUS PASQUARELLA

All four of these patients were completely cured, and three are alive and healthy and active today, more than sixteen years later. The obstetrician now sixty-five, finds the absence of one lung no handicap in delivering strong-lunged Pittsburgh infants, and he has one of the largest practices in the city. The young Baltimore woman has married and given birth to two children since her operation. Doctor Overbolt's patient, the woman from New Hamp-shire, returned to take care of her home and her family, and is now a proud grandmother. The child whom Doctor Rienhoff operated upon recovered, but she was drowned five years later while swimming in the Monongahela River near her home in West Virginia.

As the first to perform and report the operation, Doctor Graham is given priority in this surgical triumph. He is professor of surgery at Washington University School of Medicine, St. Louis, and at sixty-seven is dean of American chest surgeons. Tall, strongly built, plain-speaking and with a lively sense of humor, Doctor Graham is quick to point out that good luck and an exceptionally good patient contributed much to the happy outcome of the first pneumectomy. The patient, Doctor J., came to St. Louis in February, 1933—he was then fortyeight - with a history of seven months of coughing attacks, fever, and weight loss, and with X-ray pic tures revealing a fan-shaped shadow in the lung. Doctor Graham confirmed a suspected diagnosis of cancer and gave Doctor J. the bad news.

Doctor J. took it with professional calm. "All right," he said. "What do we do next?"

I'm afraid," Doctor Graham replied, "that the upper left lobe ought to come out." (The decision t remove the whole lung was not made until later, bu

a lobectomy was a serious enough operation.)
"You're the doctor in this case," Doctor J. asi "If you think that's what ought to be done, I gue we'd better get on with it. But I'd like to go ba home to Pittsburgh to attend to a few things first

Doctor Graham, in relating this incident, no admiringly that his doctor patient was "not onl stoic, he was also an optimist-while at home went to his dentist and had several cavities in teeth filled."

Doctor J. grinned when I recently repeated this remark to him, "Doctor Graham doesn't tell the whole story," he said, "After I got my teeth filled I hedged my bet by going out to the cemetery and buying a lot." (Continued on Page 131)

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LUNG

duced by R. YOU BE : UDGE

BEST IMAGE



RELIEF USO

BOY WITH A POCKETKNIFE

with a kind of inver

BEST IMAGE

NEW HOPE

RASH EFFORT FOR A SAFER CIGARETTE



To collect tobasse-emake components for analysis, the P. Lorillard Co. uses a machine which busily puffs 100 signrettes at a time.

In the American tobacco industry, January 11, 1964, is now known as The Day the Bomb Dropped. The bomb, of course, was the long-awaisad report of Surgeon General Lather L. Terry's Advisory Committee on Smoking and Health. Terry dropped it in a press conference which many industry leaders watched on the monitors of TV networks taping the event.

One of the men on ground zero in New York that morning was Dan Provost, a publicity executive of the Liggett & Myers Tobacco Co. Waiting nervously with other officials of the firm for the broadcast to start, Provost absentingedly wandered over to the news printer in the office. To his surprise he found that an advance story was already going out over the wire. He read the first few sentences of the dispatch and gasped. "Oh, my God!"

A few miles away. Morgan Cramer, president of the P. Lorillard tobacco company, was at a meeting of the board of governors of his golf club when an attendant rushed in and called him to the phone. Cramer listened to the same news dispatch that Provost had read and then roared. "I just cam'r believe it. Have

somebody in Weshington fly up to New York with copies of the report immediately. I'm on my way in to the office right now."

At about the same sime, the phone began ringing in the home of W. C. ("Mutt") Burron in Reidsville. N.C., a community whose economy depends exclusively on tobacco farming and cigarette manufacture. Burron heads the Reidsville bureau of the Græmboro (N.C.) News and Record and is the town's wit and philosopher. The calls were all the same: "Mutt. what does this mean? What am I going to do if I lose my job (or my farm)." To each culter Burron said gently, "Now don't you fret. Even if what they say is true, you know that folks aren't going to quit doing anything that's bad for them." But each time, as he hung up the phone, the sober look on his face belied the optimism in his voice. Burton was worried, and he was shocked.

Like everyone connected with the tobucco industry—farmer, factory worker or executive—he had expected the surgeon general's report to condemn cigarette smoking. But no one had expected that condemnation to be couched in such relentless.

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"THE INDUSTRY WILL NEVER BE THE SAME AGAIN."







N.C., Drs. Clifford O. Jensen and Alex Spear light up a line of cigarettes in test smoking machine.

withhold their support from cultural leg s one North Caro-, "What do you exlina Congressman sa of the economy of Despite these phases. my state is bay

werful protectors, far-sighted tobacco however, the farmers are gentimely worried about the future. In Rockingham County, N.C., for example, Dennil Schight owns 36 acres, of which 12 agreemented to tobacco. He has been letting the athers lie fallow, roman he has extracted thinely worried about the unethern County, N.C., for tating each ye now he has started hedging his hets: On the acres not planted in tobacco the late aces up dairy farming. "Last fallithand ys, "my wife and I drove up through west Virginia and saw those towns when the coal mines re-closed down. It was tarible, all those peo-ricle handing on the hillsides looking for a miracle so they could make a living again. Now I must himmers thinking it could happen here. This cancer scare could make Notice Tobacco Rosco Araio eroline a run-down

But few of the Territors in Rockingham County are as prudent as Dennis Knight, and they are the despair of Horace Hux, the dedicated young county agent for the Department of Agriculture. Hux hes been pleading with them for years to protest their future with something other than tobacco. For the most part, however, they are stubbornly settling down to tide out the storm, expecting it to blow Over like so many others they have wenthtred in the past. Until it does they are sutting back on their spending for clothes, new equipment and other non essentials: and these economics—coupled with the lavoffs and outbacks among faclory workers in the towns-have not off In economic chain reaction that seriously threatens the merchants of the region.

haven't been hurt so far le have to buy food, and save pennies with us," said a supermarket executive in I.C., "but the little country in the county are really suffers department store a clerk We deal in clothing, and with the is scaled and the workers here cut k to four days' work instead of five. e much money left over for hing after they've bought food. Let's ack to normal soon. Heaven on if it doesn't." Among the staut are the local appliance stores. drastic drop in applications to buy things on time," said Clay Murray, executive secretary of the Reidsville Merchants Bureau and head of the town's credit and collection agency, "And we're baving a lot of trouble collecting bills for doctors and dentists. I really don't think people are burting too much yes-but they sure are apprehensive."

"We licked James I"

to the gigarette companies themselves. attitudes range from defiant bravado to nuine concern for the public welfare. We licked an English king, James I, when he attacked the use of tobacco in 1604," said one executive, "and I think we can lick the United States Government today." But 99 percent of the industry's top brass are willing to cooperate with the Government and with # authorities. Most officials agree with the man who said. "I'm still not convinced by the surgoon general's report that eighrestes are the cause of lung cancer and other diseases. The report is filled with discrepancies and unanswered questions. But I'm willing to do everything in my

power and to spend every cent we possib can for research to produce what the Government and the doctors will consider a safer eigarette.

Although all six of the big companies have had research programs und for some time in their own well-staffed and well-equipped laboratories, there was a period of confused vacilitation before the attitude of many officials hardened into the present concentration on the search for a safer cigarette. In the first dark days after release of the surgeon general's report on January 11, scientists friendly to the industry made the usual rebuttals, pointing out that the Government's report involved no new research but was merely a compilation of old reports, and claiming that there is just as much evidence against air pollution as there is against cigarettes as a cause of lung cancer. There were even a few isolated appeals to prejudice, such as the statement by a South Carolina legislator that all the scientists and doctors on the surgeon general's committee are North erners and that the report "is just another ankee attempt to subdue the South."

Next came a period when the industry waited hopefully for the furore to die down, confident that the public would soon forget about the report and resume its normal buying of cigarettes-as the British public had done a few weeks after the shock of a similar report by the Royal College of Physicians in 1962. But the weeks went by and sales in the United States generally continued to drop—in some places as much as 30 percent-right on into spring, although some states reported signs of a slight comeback in March. Moreover, public attacks on the industry continued. In Congress. Sen. John J. Williams of Delaware introduced

an amendment to kill the Government's tobacco price-support program on the grounds that another arm of government. the surgeon general's office, had condemned tobacco as injurious to health. Tobacco-bloc senators beat back this attack, but others popped up in state legislatures and city councils. A Committee of the New York State Senate for example, charged cigarettes with cousing mass murder" and called for "a declaration of war against cigareties."

Most serious of all for the industry, the Federal Trade Commission proposed a government ruling that every eigarette package be required to carry a printed warning such as: CAUTION: CIGARETTE SMOKING IS DANGEROUS TO HEALTH. IT MAY CAUSE DEATH FROM CANCER AND OTHER DISEASES. The FTC held hearings on the proposal in March and then began deliberations which are still in progress. All these developments have made the tobacco industry acutely unhappy.

Yet out of all the gloom and despair there have emerged some solid reasons for hope. U.S. Sen. John Sherman Cooper of Kentucky turned up the first. Reading the surgeon general's report, he began to wonder if it were not based largely on studies of the old-fashioned nonfilter cigarette, since there had not really been time to compile statistics on death rates among smokers of filter tips. which have only recently come into widespread use. On January 13, just two days after the release of the report, Senator Cooper wrote to the surgeon general, asking. "Is it not correct that the advisory committee made no judgment as to the effect of udding filters to cigarettes?" The following day, January 14, Surgeon General Terry answered Senator Cooper's questions in a letter that was released



RRECT THE PRESENT CRISIS TO BLOW OVER. AKIVIERS

to the press been a generally overlooked in the nubbu ging over the report itself. He wrote that "it is erroneous to conclude that digaratte filters have no effect," adding the filters in common use do remove a variable portion of the lars and nicotine with that "the committee felt that the applement of better filters or more selective filters is a promising avenue (e development.

The next my of pope for the tobacco industry carried a totally unexpected source—from the Ernest L. Wynder of the Sloan-Kettering Institute for Cancer Research, a d o nad been known for years as one of the most implacable fors of cigarette simpling. It was Doctor Wynder who have beloed precipitate the first big concessare in the early 1950's when he reverted he had produced thousands of carriers that backs of mice by painting the animals with concentrates from cigarette smoke. Since then he had made study after study with laborators animals, all designed to prove the virulence of the digarette. Citing all his evidence, he had become one of the world's most atticulate critics of smoking. On January 24, however, Doctor Wynder made a statement—which also was lost in the turmoit surrounding the surgeon general's report—in which he said that the development of less harmful digarottes was entirely possible. "Some elements in the tobacco industry have already made good progress in developing safer eigarettes. he added

A third major boost to the industry came on January 31, when the American Medical Association announced that it was taking un where the surgeon general's

eft off. "Our purpose," the A.M. said, "is to find what in the Pharmful, the mechanism of find what can be done to remove the topacco people, jubilant at this direction that the A.M.A. felt something could be done, contributed \$10 million to the research project.

Manages the most important note

hope was found in, of all places, the eral's report itself. The report id made if clear that the removal of tars <u>totiĝes from cigarettes was not</u> explained that there are gases cigaretté smoke, such as hydrogen cyanide and acetaldehyde, that cripple the body's own cleansing mechanism in the respiratory tract, thus allowing cancercausing substances to lodge in the bronchial tissue instead of being carried away. For this eleansing, the body relies on millions of little hairlike protuberances in the respiratory tract, called cilia, which beat back and forth like ours in an ancient slave galley. The rhythmic beat of the cilia moves the mucus upward, carrying with it all debris from the lungs, until both mucus and debris can be swallowed harmlessly or spot out. Cigarette smoking is known to slow down the best of the cilia and even to eliminate many of them altogether. But, said the surgeon general's report, scientists have recently opened an important line of investigation concerning the gases that inhibit or destroy the citie. In what probably is its only positive finding, the report states, 'It has been reported that a filter containing special carbon granules removed reseous constituents which ricorous Managar ciliary activity."

This one cheerful little sentence has touched off what promises to be the biggest and most expensive marketing war in digarette history, a war that is already being labeled The Great Chargon! Derby. First out of the starting gate was Liggs & Myers with its new Lark claurette. The company began its research into cilia inhibition several years ago when it engaged the noted pharmacologist, Dr. Charles J. Kensler of the Arthur D. Little research organization in Cambridge, Mass. As a result, the Lark - with an activated charcoal-granule filter sandwiched bettwo conventional filters—was already on the market when the surgeon general's report was released.

Chargoal success story

Lark took off in sales like nothing the industry had seen in many years. Within a few weeks of the report's release, it zoomed from nowhere to a place among the top-selling eigarettes. In some areas it was the No. 1 cigarette in February and March. It is one of the few brinds that have run counter to the generally down-ward sales trend since the surgeon general's report, Another is the Ameri Tobacco Company's new Cariton, which features low tar and microice content and which works on a different principle, removing most of the smoke with air holes in the paper and then using specially treated chargoal not so much so take out eases as to add aromatic flavor.

Liggett & Myers, like all the other cir rette companies, is prohibited by a 1960 Federal Trade Commission ruling from making any health claims for its products, but it had a lucky break with the Lark. Dr. Louis F. Fieser, one of the 10 scientists on the surgeon general's advisory committee and a professor of chemistry

at Harvard, was interviewed on January 21 by The Hervard Crimson, the univer sity's student paper, Doctor Fieser was asked what he smoked, "Larks," he said. and added that, "this filter represents a definite encouraging advance." Thousands of reprints of the college-paper interview thereupon appeared all over the country-and Lark was on its way. It will not have the field to itself for very long. owever. P. Lorillard's new York Filters. Brown & Williamson's new Avalon, and the new Multifilter Philip Morris-all with activated charcoal-granule filters and each elaiming additional features which supposedly make it superior to the Lark-have been test-marketed and are ready to enter the Charcoal Derby.

But is chargood the real answer to the dustry's problem? Even Doctor Kensstific father of the Lark, does not think so. "It's just a start," he says.
"The encouraging thing is that we proved that the gases are harmful and that we found a way of selectively pulling them out of the smoke, instead of just removing part of the whole smoke, which is what the purely mechanical fiber filter does. The next sten is to find other harmful components and selectively remove them with other filtering materials. We may end up with five or six different filters

on a cigarette."

Dr. Ernest Wynder goes even further in his predictions. "I still think the best thing is not to smoke at all," he says, but since most people are going to continue the habit, we must come up with a safer oigarette, which I'm convinced we can do. The less harmful cigarette will be designed with a multiple approach. We can use strains of tobecco that have less hazardous, substances in them, we can use less hazardous methods of curing tobacco, we can use finer cuts of tobacco for more complete combustion, we can find better mechanical filters to remove particles, and we can add as many filters as necessary for selective removal of es and other dangerous materials."

Doctor Wynder himself is experiment-

ng with a new fifter that is based on his ony that the Turkish water pipe is the safest way to smoke, because so many potentially dangerous substances dissolve in the water as they bubble through, ps droplets of water with glycerine in a fiber filter, which thus remains moist and effectively takes out such smoke components as acids, aldehydes and phenols. A major themical company is adapting Wynder's filter for commercial development, and it is not unlikely that the 1965-model eigerettes will have water ers added to the charcoal and others.

With all this encouragement from unapacted sources, the tobecco industry is finally recovering from its January 11 hock. No longer disposed to deny or debase the cancer problem, it is now pinning its hopes for continued prosperity on the search for a safer eighrette. And it is setting help from government officials such as North Carolina's dynamic young Gov. Terry Sanford, who says. "We need research, research and more research. It is inconceivable to me that a nation which is planning to put a man on the moon can't identify the dangerous substances in tobacco and remove them.

Even the farmers are showing renowed optimism. "Something good will come out of all this trouble," says T. S. Butler of Rockingham County. "Now the scientists will find the cause of the health trouble and cilminate it, and we'll be able to grow something that will be safe for the public and which they'll still enjoy."

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BY

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PROPERTY OF BIOLOGY AND PUBLIC HEALTH, MASSACHUSETTS INTERIOR OF TECHNOLOGY; ASSOCIATE PROFESSOR OF PUBLIC HEALTH AND HYGIENE, TUFTS MEDICAL AND DENTAL OOLS; DIRECTOR OF HEALTH EDUCATION STUDIES AT MALDEN, MASSACHUSETTS; AND CHAIRMAN OF THE HEALTH SECTION, WORLD FEDERATION OF EDUCATION ASSOCIATIONS

AND

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TRECTOR OF HEALTH EDUCATION, MALDEN, MASSACHUSETTS



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D. C. HEATH AND COMPANY
BOSTON NEW YORK CHICAGO
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LONDON .

TOBACCO

Probably most of you know that tobacco is a plant. In the same family with it are the potato, the tomato, and the poisonous henbane and deadly nightshade. The harmful substance in tobacco is nicotine, which is a narcotic. Narcotics, in effect, "put part of the brain to sleep." When they are powerful enough and used in large tugh doses, they produce unconsciousness. The effect of nicotine in small quantities is less extreme than the fact of many other narcotics, as, for example, alcohol and opium, but its effect is distinctly poisonous.

Effects of smoking. — There is a common belief that smoking interferes with athletic ability. A very interesting strely of smokers and nonsmokers has been made by Professor J. Rosslyn Earp.*

In ordinary college athletics it is difficult to learn anything about the effects of smoking. In intercollegiate sports so much emphasis is placed upon winning that the men are all put in training for some time before the event so that even those who ordinarily would smoke do not use tobacco at all for some time before they compete. At Antioch College a different situation is found. There the sports are looked upon only as recreation, so that training rules are not enforced.

Professor Earp made a study of two track meets, one held in 1924 and the other in 1925. The first meet was competition within the college, and the second was a

Market Ma

^{*} EARP, J. R.: The Student Who Smokes. Antioch Press, 1926.

HEALTH STUDIES

duced by KJKIC in in in HUMPHREY

BY

F. M. GREGG

Departments of Psychology and Education Nebraska Wesleyan University

AND

HUGH GRANT ROWELL

Assistant Professor of Health Education, Teachers College Columbia University



1932

WORLD BOOK COMPANY

Yonkers-on-Hudson, New York

and thus shorten their lives and lower their health very definitely. Life insurance companies report that he average life is shortened as much as seven years by the use of tobacco.

Among the effects produced by the habitual use of tobacco are impaired functioning of the heart and digestive system. The lungs also suffer directly from the effects of tobacco smoke if it is inhaled. To this list could be added a longer one of the common diseases, the recovery from which is made more difficult because of the patient's use of tobacco.

What do you consider the most objectionable effect of the use tobacco?

Exercise 57. Narcotics: Patent Medicines

Practically all medicines, if used incorrectly or excessively, do harm or fail to help you as much as they should. When you take medicine, it should always be under the direction of a physician. Remember that very few medicines ever cure diseases directly; for the most part, they help the body in its own task of getting into a healthy condition again.

Remember, too, that a special medicine is prescribed for one illness only and for one person only. Too many people fail to recognize this fact and use medicines for purposes not intended by the doctor. It is particularly unwise to trust to the directions and comments found in patent medicine advertising or on the labels of patent medicines.

Some types of patent medicines with their narcotic

ONSUMERS MION

JULY 193

CIGARETTE

A comparison of 35 brand

A note on filter holder.

SUMMER GASOLINE

Ratings by brand & grade

Sunburn PREVENTIVI

VACATION HAZARD

SUNGLASSES
Test results on 30 pairs

Labor Notes, News,

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vertising agents can put a lot of enthusiasm into their praises of cigarettes. They love them. Because cigarettes charge a larger proportion of their cost price to advertising than any other commodity except cosmetics.

Do You Want Your Nicotine or Don't You?

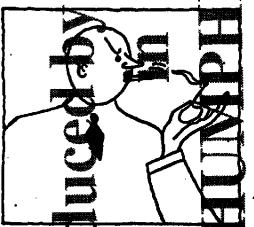
FF you smoke merely to be sociable I and don't crave a cigarette when you're alone, then you are not addicted to nicotine, and you might as well absorb as little as possible in whatever smoking received to do. The following hints may prove helpful.

Any or afuthern is fairly efficacious alone. In combination they are nearly perfect, and 90 44/100% of the nico-tine will into the filter or your friends'

1. Held the lighting flame to the cigarette the minimum time necessary.

2. When you take a puff management

gentle of the puffs hold your ci with the lighted end higher.



"Hold the thing flame to the cigareție the filliquum time necessary



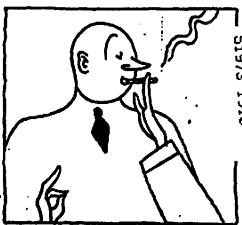
"Hold your cigarette with the lighted end higher"

4. Put the eigerette out before it is half through.

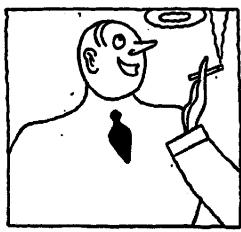
Smoke your eigerette mostly "by hand," taking as few puffs as are consistent with the pose of liking it.

6. Use a filter holder.

FEARE best kind of filter holder is one 🚅 with a mouthpiece and, detachable from it, a barrel into which a cigarette or a plug of cotton can be inserted to act as filter. Of this type, the Zeus is the most expensive, but thanks to national advertising it has sold over a million. The fact that its barrel is made of "special aluminum" is not because special aluminum or any aluminum does the job better, but because the



"When you take a puff on your cigarette make it a gentle one"



"Smoke your elgarette mostly by hand. taking as /ew puffs as possible"

Aluminum Co. of America helped

A host of such holders has appeared, most of them with barrels made of ebonite or some other plastic material. They sell for from 25¢ up, in colors to match any dress. There are even neat cardboard filter holders at three for 10f. The only thing essential is that at some point in the barrel or the mouthpiece the filter eigarette should make a tight fit. Filter holders of this type climinate about 60% of the nicotine that would be present in the unfiltered smoke.

Another kind of filter holder (e.g., Denicotea) uses a cartridge of absorbent granular material. This doesn't do quite such a good job.

Many filter holder users have found that for various reasons they smoke more eigerettes with the holder than without. When in addition the holder is one in which a cigarette acts as filter, the increased eigarette consumption may amount to around 10% or more. The eigerette companies might make money by giving holders away.

Although much of the nicotine in the smoke is retained by the filter, the color which it acquires with use is no proof of this, for nicotine is colorless. It is the tars and allied substances which give the brownish tinge, and which are responsible, rather than nicotine, for the bite of tobacco amoke.

The so-called denicotinized cigarettes most widely sold in this country are the Sano and the Carl Henry, each of which contains about 1% nicotinethat is, about half as much as ordinary American-blend eigarettes. They do not have a wide sale, probably due to high price and perhaps to the fact that they are less satisfying to the smoker. Cigarette "strength" is not related to nicotine content, however, for the nicotine content of untreated West Indian leaf is even less than that of "denicotinized" cigarettes. Yet cigarettes made of it affect the smoker as "strong."

The advertising for denicotinized cigarettes is false. It is stated that "the nicotine is out." Then the statement is modified so as to be no longer false. but merely misleading: "Guaranteed io contain not over 1% of nicotine." The implication is that 99% of the nicotine contained in ordinary eigerettes has been taken out. But ordinary cigarelles What CU's tests showed . . . the industry and

V RJRT

The thoughtful individual above is an average eigerette smoker. He is contemplating twelve piles of eigerettes, each containing an average month's supply. Although there are no precise statistics on eigerette consumption in the U.S., an average of the estimates indicates that

nearly half of the adult population makes cipercites, each smoker burning up 24 elgadates ofday, 730 a mouth, 8760 a year. In the piles about 27 heards which secount for 95% of domorals algorate sales and represent all of the leading districts manufacturers.

1973 1911

its advertising...and: how harmful are they?

he biggest news in the cigarette industry is the fast-growing popularity of king-size and filter-tip brands, both widely promoted as offering the smoker "protection" against nicotine and tar. The biggest news from CU's tasts of cigarettes is that a smoker actually gets more nicotine and no less of the tars from most filter-tip and king-size cigarettes than he does from the regular brands. The new filter-tip Kent cigarettes. CU's tests showed are an exception. Kent smoke contained about half as much nicotine and less tars than most regular brands. Most filter tips were ineffective, the tests showed apparently because an equal length of tobacco in the butt filters out more nicotine and no less tar than the usual cotton or paper filter. In king-size brands, the extra tobacco does reduce the amount of nicotine and tar the smoker takes in, but only if he leaves the extra length of the cigarette unsmoked. If he smokes to the same size butt as he does with a regular brand, with most of the king-size brands he inhales more nicotine and tar per cigarette. Again there is an exception; Embassy gave no more nicotine than a regular cigarette even when so smoked.

These are among the results from CU's tests of 27 brands of eigerettes accounting for 95% of domestic sales and representing all leading companies.

CU also found that, among the leading popular brands, there were no significant differences in the amount of nicotine and tar in their smoke; and that all of the leading popular brands had more nicotine in their smoke than several other American-made cigarettes, including one brand (John Aldens) made from low-nicotine tobacco, the filter-tip Kents, several Turkish-type cigarettes, and a low-cost brand (Yorkshires, sold by Sears-Roebuck).

CU also tested filter holders for their effectiveness in removing nicotine and tar from eigerette smoke; the brand ranking highest in this respect was the Zeus, in which you use a eigerette as a filter.

For a complete report on the results of CU's tests on cigarettes and filter holders, see pages 67 to 70. For a review of the industry which manufactures America's most widely distributed product, turn the page.

The biggest news in the bi

reage Americans spend billions of deliver each year on algorates, recept the number of eigenetis-19100 then in the population is grow-indicated the liquid of nearly one out of market and has already received the liquid of nearly one out of market and other and serious questions have been raised about the second of algorithm and the country of the second of the cigarette indicatory's binguitates and often central and other country and other country of the second of the secon

INDUSTRY PAGE 40

From the Indians to the truets Trust busting and the price story Advortising: a modern mythology

THE PRODUCT PAGE 47

U's tests: the findings and the methods Missine and ter in eigerette medes - how 27 bronds compared Belings of filter belders

THE HEALTH PROBLEM PAGE 73

What the medical literature really shows feet in fency in the advertisements

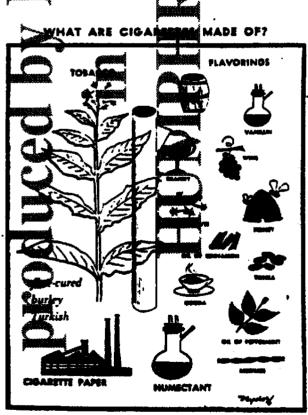
CONSUMER REPORTS BY

the industry

Two antitrust suits but still no

real price competition . . . millions for ads but a still skeptical public

ion. started when the Indians gave tobacco leaves to the featured. Practically from the very first, the use of to-aniards. Practically from the very first, the use of to-aniards. Ring Charles II and King James I of England in the dedicts against amoking; in Russia, at one limit insokers were punished by amoutation of the nosalimate today and is reflected at the paradox that cigarettes, magnificant alcoholic beverages are the most heavily taxed consumer products at the same time that they are used here not segment of the administration.



The drawing shows the range of Ingredients of demostic eigerettes. Not all are in all brands, but most cantain: tobacco and paper, of course, a humoctant (moistoner), sweateners, and traces of other flavorings ("maing" in the trade). Popular brands are 45% to 75% Successed, 25% to 45% burley, 5% to 13% Turkick tobacco

The background of disapproval and distrust of eigarette amoking is also reflected in many of the slang names for eigarettes, among them: coffin nails, gaspers, weeds, pills, lung dusters, dope sticks, and poison sausages.

Cigarettes are a late entry in the tobacco business: they were invented in South America sometime around the middle of the 18th Century. As late as 1920, cigars and cigarettes were in a close race for the smoker's dollar, with the cigarettes (which were, of course, much cheaper) outselling rigars only about five and a half to one. Today, about 80% of the leaf tobacco used in this country goes into cigarettes, and about 70 or more cigarettes are sold for every cigar. From the bottom of the last depression to date, cigarette sales in the United States have nearly quadrupled, reaching the fantastic record figure_of_395 billion in 1952. This represents a retail expenditure of around 4.3 billion dollars. To bring it down to an understandable level, it is estimated by Business Week that half a pack of cigarettes is smoked every day for every American over the age of 15 and that the average cigarette emoker puts out roughly \$90 a year for cigarettes at the present rate of consumption. That rate, incidentally, is still rising very rapidly (see the chart on

page 63).

Forty years ago, when cigarettes were still considered somewhat sissyish for men and downright immoral for women, the products were quite different from most modern brands. Turkish or Virginia tobaccos were used practically exclusively and without added flavorings. The change to the present type of cigarette began in 1913.

The break-up of the trust

At the turn of the century, there was much public concern with the dangers from big business, and among the trusts which the government broke up was The American Tobacco Co. When it was dissolved as the result of a government case in 1911, its assets were divided among the present American Tobacco Co., R. J. Reynolds Tobacco Co., Liggett & Myers Tobacco Co., and P. Lorillard Co. R. J. Reynolds did not get any of the cigarette business, but two years later it launched a new brand—Camels.

Camels were not only a new cigarette, but a new type: contrary to the current belief that only Virginia- or Turkish-type cigarettes could be sold in quantity, they contained a good proportion of burley tobacco; secondly, they were "cased" or flavored; and finally, they were widely promoted by advertising.

Aside from the taste of the brand and the intensive advertising, a number of social factors may have had a great influence on the acceptance of Comels; for one thing-they were introduced at a propitious time for sales, just before the explosive effects of World War I on many social

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taboos. Within half a dozen years. R. J. Reynolds had captured 40% of the American eigenette market with Cameis. Naturally, the other big companies followed suit: American Tobacco lounched Lucky Strike, a burley mixture cigaretta, in 1916, and Liggett & Myers shortly switched Chesterfield from a Virginia cigarette to the new type. P. Lorillard didn't got on the band wagon with Old polds, until 1926, after the race was well started.

The three biggest companies in the industry today are till the same three which inherited the major share of the of the ald tobacco trust back in 1911. Among them They divide roughly 77% of the domestic cigarette market Liggett & Myers, 18% t. Their major, regular-size brands. lowerer, do not account for all of this; about 18% of the comes from their secondary brands, chiefly kingine take also some others. To have companies, like many
there are manufacturers, and to compete with themsizes in order to cover all segments of the very diverse merican market.

It is attimated that some 105 or to of the adult women becountry smoke, and that some 60% or more of the add the man are confirmed cignestic mokers. At the older cignestic proportions of both many and women who smoke cignestics are somewhat less. The confirmed present generations grow older the ratio of cignestic smokers to non-smokers she old will almost d

Whene cigaret pumpe e boundary

Fine ettes are interprobablishe most widely distributed
manufactured product in the country. You can get a pack
almost anywhere and at almost anywhere and official ettes. Along with the posse increase in smoking by comen has come a boom tracigarette sales at food steres and supermarkets, which the most of their eigerette builden by the carton and supersult most other outlets by a fee cents per carton. Their amount now for about one-things all cigarette sales. Vending machines, which charge manufact cigarettes than regularized the counter sources, get about one-sixth of the business. Cigar stores and cigar station et about one-eighth man business. Drugstores millalus sizable share, about one-seventh; restaurants, bars, an liggor stores do about equality enth. A wide variety of cour retailers also get into the act.

In the garette retailers often compete vigorously for busiid their chief weapon is price. During the 1930s, cimerette price wars were common, and real bargains were hilable when stores used eigerettes as loss leaders attract customers. Today prices are more stable, but or source out them and some collers, such as restaurants

ubs, hike them.

So far as the consumer is concerned, the prices generally seem to be climbing. From the depression's two packs for a quarter, the leading brands have risen to a nationwide average of about 21¢ a pack. When the prices rice, they rise together on similar brands. Although you may and one store in your neighborhood selling the "Big Three" brands for a penny or two below another store, you'll look a long time before you'll find any retailer pricing one of the leading brands below another.

A kind of competition

Price competition among the large companies has existed but only, in the last couple of decades, at the wholesale level, and not there to any serious degree. For two years. from 1946 to 1948. Camels were sold at Se less per 1000 (80 packs) than either Luckies or Chesterfields (or most other popular brands+. a saving too small to be practical

to pers on to the consumer.

The leaders got a scare during the depression when the cut-rate brands were being pushed. The savings of 3c a pack available with such brands as Wings, which used to retail for 10¢, looked pretty good to smokers in the Thirties. When the Big Three upped their prices in 1931-as one put it, to show their confidence—the sales of 10c brands akyrocketed. In one year total consumption of the 10c brands was increased almost 30 times. Shortly after that, the leaders started lowering prices again and took other action to prevent the 10c smokes from becoming a national institution.

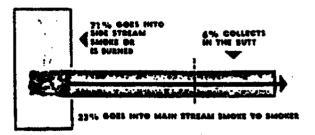
The story was made public in the government's second antitrust suit against the cigarette manufacturers, started in 1940 and completed with a Supreme Court decision in 1946. When the 10c brands were garnering a good piece of the market, the large companies began buying up the type of tobacco used in the 10c cigarettes (but not in their own!. They stored it in warehouses, withholding it from the market to keep it out of the hands of their competitors.

This was only one of the methods used to prevent real price competition in the industry. Despite variations in their budgets, the Big Three generally priced their cigareties to wholesalers at precisely the same figures, down to the penny, And when one changed the others changed in consort. But when R. J. Reynolds raised its prices in 1931 and American followed shortly, Liggett & Myers went along only reluctantly. The company announced that it considered the price rise a mistake but that, if it failed to play along. it would have less money available for advertising and would therefore be at a competitive disadvantage. The

Continued on next page

WHERE THE NICOTINE GOES

(Percentage Source are approximate)



CONSUMER REPORTS AT

cigarettes continued

statement made clear what the industry leaders considered proper and improper competition.

What the government accomplished

As result of the second antitrust case, the three major companies stood convicted not only of manipulating the same to markets to prevent competition, but also of collusion to prevent price competition by keeping their own price (the same and by bringing pressure on dealers to prevent any but the few recognized cheap brands from being sold at a lower price than the regular brands. Some the same and years after the decision, the major brands are injury others, including tome of the king-size cigarettes, the same sold at identification of the price within stores throughout the country. Even Philip Morris and Old Gold, the same of the province of the past of the country of the past of the country of the past of the same standing of the past of

and one of retail price competition;

which was Wings, have done and morely. Their percentage of sales has declined to a prove pibstantially below 150, compared to more than 22 Tables, one peak month in 1932 have the Big Three really gave them the works. Wings is still cheaper than the leading hands, by the same 8¢ per peck levings it opered in 1931. It late comer to the cutmissible dis Youther, a really saled brand which is sold exclusively has been Roebick. Youkshire averages about 4c per pack less than the leaving brands, but it is considraphy less convenient for methods furnity less convenient for methods furnity because of the similar declining the sales with the consideration of the sales with the sales of the sales with the sales of the sales with the sales of the sales with the sales of the sales with the sales of the sales with the sales of the sales with the sales of the sales with the sales wi

the its survey. CL found manuscripteres priced higher that the popular brands, with langed from 18c to 26c a pack. from store to store and place to place. The king-steed thesterfields usually for 2 to per pack premium. Filter tip brands purchased ranged from 1¢ higher than specify per pack for Vice manuscripter per pack for Vice manuscripteres. Parliaments, and du Mauriers. The high-ranged brands CU bought the brands were the Turkish search and Melechrino at from \$2c to 46c a pack. Helmer, at a prices from 24c to 36c and low-nicotine John Aldens at 23c to 31¢, and the anicolinised Sano, at 26¢ to 34¢.

The outlook for prices

The cigarette industry is enjoying the current boom artiflicat as most consumer industries, but its spokesmen, limitable of the process are grumbling about the equeeze between rising costs and fairly rigid prices. Cigarette prices are still under price control, although they did rice recently to allow the companies to pass on to the smoker an increase in Federal tax. The manufacturers are eagerly looking forward to April 30, when the present price control law is expected to die, and price rises seem almost sure to be on the way. Even with record sales there is the last few years, the companies did not make record profits. In 1951, for example, when total cigarette con-

sumption was up more than 3% from 1950, the profits of the manufacturers fell off an average of 15%. (The Big Three still made a total of 87 million deliars not profit that year.)

There are all kinds of trade guesses, but one of the most widely repeated is that most eigerettes will go up le s pack as soon as price controls permit. Some of the king-size brands—those now frozen at the same prices as the popular brands—are expected to rise too, ending up possibly 2c s pack higher than at present.

What the smoker pays for

Taxes take the biggest slice of the smoker's dollar—Se a pack going into the Federal treesury, and from 2¢ to 6¢ a pack into state coffers (1¢ in the District of Columbia). On top of that, some cities have local sales or other taxes which add a penny er so to the total. In New York City, 18¢ out of the regular 28¢ price of a pack of ordinary eigerettes goes for taxes. The return to the manufacturer runs around 7¢, which leaves a margin of 8¢ or so for the distributor and retailer.

Tobacco leaves

It takes a buge crop of tobacco to make the raw material for 400 billion cigarettes and still leave some for other tuses. The total crop in this country in 1951 was in excess of a million tons, grown on more than one and a half million acres. With total demand always rising, the manufacturers of cigarettes have to hold large inventories of tobacco leaves, particularly since some kinds must be cured for 18 months to two years before use. The market in which the manufacturers buy is far from a free one. The Federal government supports tobacco prices and this method of support has the effect of strictly limiting acreage. That helps to keep cigarette costs up. Right now less tobacco prices are of slightly, but the consumer won't benefit, at least for a few years, until the tobacco now being bought comes on the market, and he probably won't benefit then unless the manufacturers are forced by economic circumstances to pass on the savings.

Tobacco is under one of the tightest controls the Department of Agriculture has over any cash crop. Acreage allotments are closely held and highly prized, and the total allotment is usually increased very little from year to year. If you grow tobacco without an allotment, you end up by paying a penalty tax when you market it, and the tax may be a high percent of the value of the crop.

The cost of cured leaf tobacco makes up more than half of the cost of making and marketing a cigarette. The cost of manufacturing and shipping together, according to published figures for the standard brands for 1940-1941. approximately equaled the cost of advertising, which was about one-seventh of the manufacturers' costs of doing business. Selling costs other than advertising are an appreciable item, also, although less than half of advertising costs.

Although they spend more on tobacco than an advertising, the eigerette companies give the impression of being more concerned with their advertising compaigns than with the kind of tobacco they buy." Considering the low value

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of the dollar today compared to the early 1930s, their present campaigns are actually conservative in size. In 1930, the Big Three alone spent roughly 46 million dollars on advertising: the entire industry spent only a little more than 60 million dollars in 1952. Five of the companies, however—American Tobacco, Reynolds, Liggett & Myers, Philip Morris, P. Lorillard—ranked among the only 20 firms in the nation to spend 4 million dollars or more on ads during the first six months of last year. Those five Rimpañies account for 92.7% of all the cigarettes sold in this couptry, and a very sizable portion of other tobacco

Just what these huge outlays have bought, not even the advertisers seem sure. For one thing, they have bought a seri-singunt of trouble with the Federal Trade Commission, which has objected at one time or another to claims made bright the big companies and many of the smaller ones. Thraps the most famous signrette advertiser was the many reward that the famous of the same that the most for the character of the postor in The Huckster.) binder fill. American Tobac states for a Lucky instead of the pioneering. The slogan Reach for a Lucky instead of the pioneering. The slogan Reach for a Lucky instead of the pioneering. The slogan Reach for a Lucky instead of the pioneering. The slogan Reach for a Lucky instead of the pioneering. The slogan Reach for a Lucky instead of the pioneering. The slogan Reach for a Lucky instead of the pioneering was used dufficient annulacturer to bid for the women's market by running pictures of a good-logant pirl smaking a cia research ben these ads were bitted, allacked, Hill replied; "The should I justify [my adjections]? It the paid."

Advertising abundant themes have run though cigarette adverting: It pleasure. 2) snob partial and 3) health appeal. The mob appeal works in several ways: the idea is built up has Brand X is amoked by mous. rich, successful perfect or those otherwise the arried or admired: the active of Brand X is repeated until it is an accepted thing admired: and Brand X is associated to be desirable (such as

consideration of the associated politic as possible with consideration be desirable (such as masculphity, or, for women, possible tooks).

The pleasure from smoking a particular brand is not, always, subject to precise screming measurement, and is possible to precise screming measurement, and is possible to a personal material analysis.

the health theme in advertism is the one that has experient most of the run-ins with the FTC and has brought the most of the run-ins with the FTC and has brought the most of the run-ins with the FTC and has brought the most of the aware that eigerette smoking may not be smokers are often aware that eigerette smoking may not be again for them and they don't like to be reminded of it by and. Some members of the industry also insist that adscrining health advantages for a particular brand merely the most of the possible dengers from smoking, to the detriment of the whole industry and without helping the advertised eigerette. But health themes have been and are still widely used.

The claims have often been peetty held: for example, R. J. Reynolds' former statement to the effect that Gamels were helpful for athletes who had to keep fit, or the assertion that amoking Kools would give extra protection

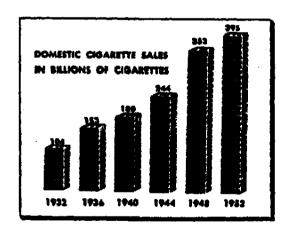
against colds. These are among the claims which were dropped as a result of FTC action.

in general, the government has held that among the teading brands there is no meaningful difference in nicotine content or in the other important chemicals in the amoke, and no significant difference in the physiological affect of smoking them. It has held that tobacco cannot be smoked without irritation to throat tissue, It has also objected to specific statements which it found to be untrue (such as Lucky's former claim that, among independent tobacco dealers, it was "Luckies two to one"). One of the most frequently used cliches in the trade is the reference to the "independent laboratory." The laboratory and the "medical specialist" may be independent in the sense that they are not part of the advertiser's organization, but, as has been pointed out by the government, they are usually paid by the company for their opinions or tests and may therefore be something tess than completely free from bias.

The FTC began its campaign to clean up the health aspects of cigarette advertising in 1942, and by 1950 had proceeded against all of the five largest companies except Liggett & Myers. The proceedings in completed cases have not served to inhibit seriously the advertising of other companies. No copywrites worth his Brooks Brothers suit would let an FTC order stop him from using health appeals if he felt they would be effective.

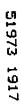
Advertising today

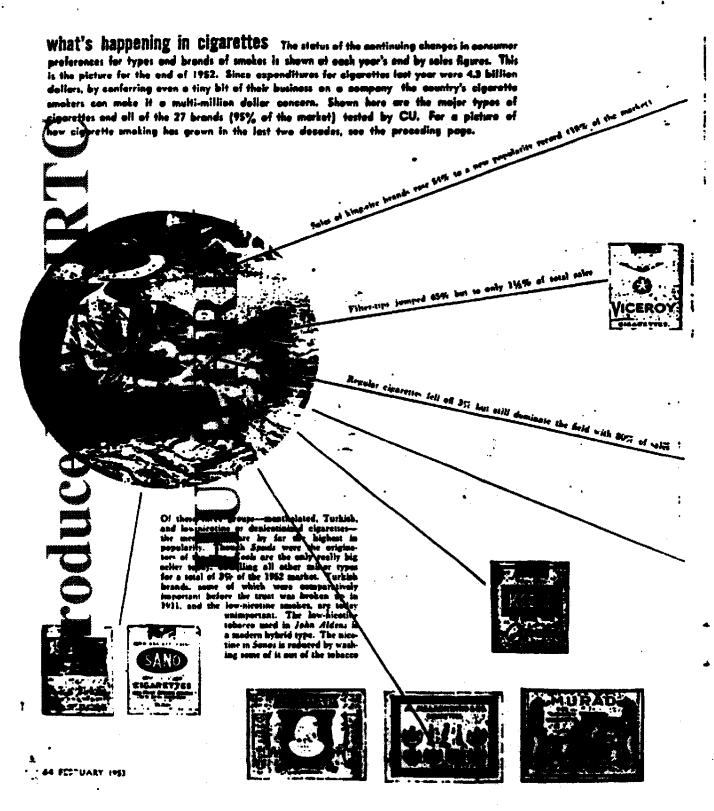
The sine que non of cigarette advertising is mildness. Rere is the copywriter who can restrain bimself from



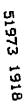
For a breakdown of sales by brands and types, see the following two pages. Text continues on page 66

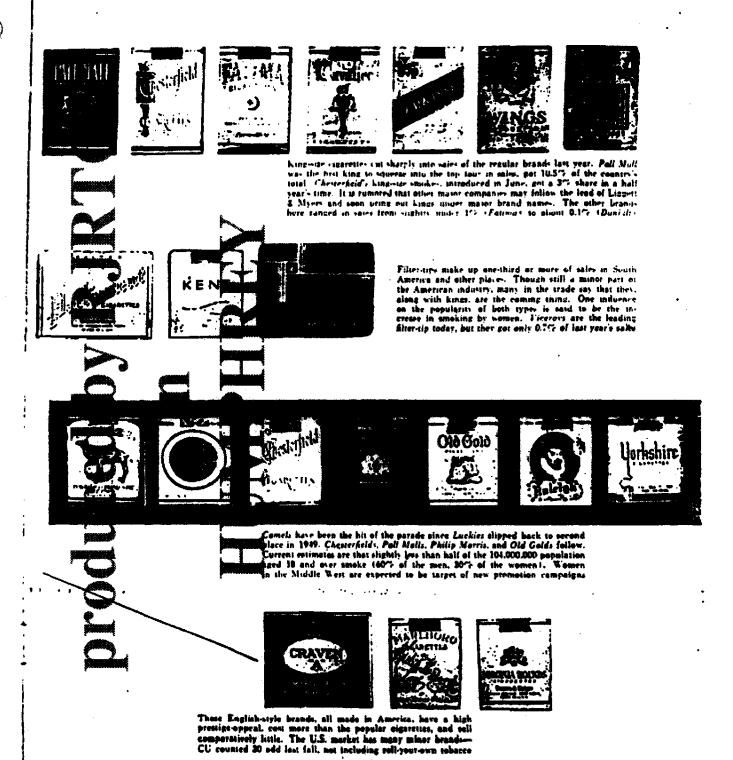
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Cigarettes continued from page 63

claiming that the cigarette whose praises he sings is, for example. "mild" (Camel and Luckies); "much milder (Chesterfields); "far milder" (Dunhills); or endowed with "tasty mildness" (Philip Morris); or with "mildness you

çan g.easure" (Pall Mall).

The filter-tip and king-size cigarettes today are usually advertised as offering protection from nicotine, tar, or irrelevant and self-avident statement is made that "The e and tars trapped by the Ficeroy filter cannot reach your broat or lungs!" Kent ads read, "First time ever! Sensitive smokers get real health protection with new Kent. you're sensitive to the nicotine and tars in tobacco. published medical representation about 1 out of 3
in the state of the sensitive and tars than other leading size stoke, the copywriter and you can "guard against through with Pall Media To Dunhill: "Dunhill because of its king size, its finer spaces and its natural qualities—screens of strants. . . . The list of similar quotes is not quite enthance ut it's long.

Health and the populate

Dut the king-size and filter-tip brands are not alone in The branks of the state of the ing brands, 1000 works both sides of the street. On the one hand, d ads carry the head members on the other hand, the s say, "No other leading linguistics is less irritating, or on the throat, or contains less nicotine than Old Get. This conclusion was established on evidence by the United States Government. What the government established and the Old Gold additionally, is that all leading brands are substantially alike in these respects, and no other eading brand is more transfer, either, more as are still full of health hints, despite a long list of lon'ts from the FTC transfer prohibited from asy-

prohibited from say. ing whatly that Camels are emcacious where a sport deprofailing energy or good condition, the ads often Flamous athletes smoking Camels and saying things as, "My choice for steady smoking is mild, flavorful Complete In addition, Camel ads announce, "More doctors anothe Comels than any other cigarette," which may be true nour being significant, because more people in general

time the most popular brand.

Two other leading regular brands, Chesterfield and Philip Morris, both used to make strong statements about freedom from irritation of one sort or another, but they may change their copy. Both are presently involved with the FTC. During the first week of January, as the culmination of a long case against Philip Morris, the Commission

ordered the company to discentinue its claims that: ir. ritation caused by smoking other leading brands is of longer duration than that caused by smoking Philip Morris: the humectant used in Philip Morris (diethylene glycol) helps to make the amoke from the cigarettes significantly less irritating to the upper respiratory tract than the smoke from cigareties containing glycerine as a humectant; smoking Philip Morris will protect the smoker from smoker's cough or the effects of inhaling.

Liggett & Myers, now in the midst of a court bettle with the Commission, uses some advertising claims for Chesterfield very similar to those the FTC has forbidden other companies to use. Some recent Chesterfield ads say, "Nose, throat, and accessory organs not adversely affected by smoking Chesterfields," and add that this is the report of a "continuing study by a competent medical specialist and his staff. . . ." For the first time in a cigarette case, the FTC asked for a Federal court injunction to prevent Liggett & Myers from continuing the ads pending an FTC hearing. The Commission is empowered to use court injunctions in cases involving drugs; in its plea to the court, the Commission said that tobacco is a drug and pointed out that to allow the company to continue with advertising claims forbidden to other firms while the case was being heard and probably appealed would place the others at a competitive disadvantage. The District Court, however, refused the injunction on the grounds that it did not consider tobacco a drug within the meaning of the law. The government is appealing the District Court's decision.

What about the public?

It is probably fairly obvious to most consumers that the FTC's efforts to control cigarette advertising haven't been very successful. Also, no matter what solemn and pious statements they may make about health-appeal ads, advertising men and cigarette merchandisers obviously think they are very effective because they continue to use them. Whether the health appeals are believed by many amokers is another question. When Dr. Gallup conducted a poll on cigarette smoking in 1949, more than half of the cigarette smokers questioned said they thought cigarette smoking harmful and had tried at one time or another to give it up.

One secondary effect of the great volume of advertising is that it seems to protect the eigerette companies, to a very large degree, from uniavorable press comment. Although some of the more responsible newspapers run news stories on FTC actions against eigerette companies and on medical research into the effects of smoking, many newspapers completely ignore these stories or bury them. The Reader's Digest, probably the only mass-circulation publication in the country which doesn't have to worry about losing cigarette advertising, carries on what is practically a war against aigarette smoking. Some of the publications connected with religious organizations tsuch as The Christian Science Monitor and the Christian Herald speak out on the evils of smoking and the excesses of cigarette advertising from time to time, but aside from this the public doesn't read much about the controversial aspects of smoking and the cigarette industry.

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the product Substantial differences among

types of cigarettes in nicotine, and among filter holders in effectiveness

different pack, were "emoked" in CU's laboratory tests for nicotine and tar in cigarette smoke. Twenty-seven brands. Included in 19 cities throughout the United States, were included in the tests. All kinds of cigarettes were represented: regular-size and king-size: regular-price, low-left and premium: the sommon American blend and tish and Virginia blands white-nicotine, denicotinized, and untreated: flavored and mentholated: and untipped, warrat, most of the differences found were surprisingly small. But some of the differences found were surprisingly small. But some of the differences found were nevertheless, in the table on page 60.

The kind of tobacco

The test results indicate that the nicotine content of the mole from a cigared withtuenced, first of all, by the type of tohacte used, the rigarette with the least ade with tobacco especially development its localization content. This brand, John Alden, had an average of only 0.4 milligrams of nicotine per cigarette include puried in by the lattery smoking apparatus. (A milligram is about 1.24 high of an ounce, the interest with less nicotine in their smoke than the in-selling brands were in content those made largely that tobacco. The low-preed Forkshire cigarette was at two in nicotine as any of the Tarkish types.

Thei "popular" brand

most widely advertised and widely sold regularength cigarettes—Camela Strikes. Chesterfields. Morris. and Old Gold—were practically identical nicotine content communications. which averaged about five times as high in nicotine per cigarette as the most from John Ablen.

h lengths generally contained about a fifth more nicommunication the smoke of regular-length American brands when the smoke of regular-length American brands when the smoke of regular-length American brands when the smoke of the lengths, when both were smoked own to a butt of a little under an inch. When, however, the term length of the king-size eigarette is left unmoked—that is, when only as much of the longer eigarette is consumed as of a shorter one—the total nicotine from the king-size eigarette is lower. The single exception found the king-size eigarette is lower. The single exception found the king-size eigarette is lower. The single exception found the king-size eigarette is lower, and the incidence as a regular eigarette, even when smoked down to a butt just under an inch.

Most filter-tip cigarettes tested—contrary to the statements in the ads for them—actually had about 20% more

nicotine in their smoke than regular brands—as much as that of the typical king-size brands smoked down to about a one-inch butt. Among the filter-tip brands tested, there was the single exception already noted: Kents were second only to John Aldens in freedom from nicotine in their smoke, averaging only about one milligram of nicotine per cigarette.

As the smoke passes through it, the tobacco in the cigarette itself acts as a fairly effective filter: CU's tests, included a determination of the filtering effect of the length of tobacco which is replaced by other materials in filter-tip cigarettes. Two-thirds of an inch of a regular-size-cigarette were cut off, and the remainder smoked to the usual extent: 16°7 more nicotine was found in the smoke than in the smoke of uncut cigarettes.

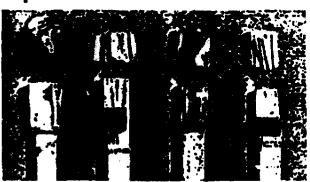
Some special cases

Slightly above Kent in nicotine content—but appreciably below the big-selling regular brands—were Sano, a "denicotinized" cigarette. Murad. a Turkish brand. and Yorkshire, the Sears brand, which appears similar to the more widely sold brands. Two other Turkish cigarettes, Helmar and Melachrino. also ranked between Kent and the big sellers in nicotine content of their smoke, but they were only a little below the popular regular-size American blends.

Some brands—Firginia Rounds and Croven A—had a higher nicotine content than the popular brands, probably because of their particular blends of tobacco.

Kools, the largest selling mentholated eigarette, are, like so many other brands, promoted as being "mild." but in

Continued on next page



What's in the filter tips (left to right): enten in Parliaments; ereped paper in du Maurier's: paper and other fileson material in Kent's (relatively effective); creped paper in Viceroy's

CONSUMER REPORTS 67

RESULTS OF TESTS FOR NICOTINE AND TAR IN THE SMOKE FROM 27 BRANDS OF CIGARETTES

Brends are listed in order of increasing nicotine content of their smoke. Because of the variability between different cigarettes of the same brand and inherent shortcomings of the test method, the differences in ter content between brands can be considered only approximate; a difference of a few milligrams is of no significance.

| BEANS AND MANUFACTURES | AVERAGE NICOTME IN SASORE PER OMARETTE (adligrams) | AVERAGE TAR IN SMORE MER CHEARTITE (MARRIAGE) |
|-----------------------------------|--|---|
| Law microtine toberre | 0.4 | 12 |
| Leritord | 1.0 | 7 |
| Sections . Leading | 1 | 17 |
| MANA digited States Tobacco | -4" | 10 |
| TREESING Soon, Backert | 2 | 11 |
| All Scales American Tebecon | .5 | 13 |
| MELMAR 7. Loristone | | 16 |
| EAMEL 2. J. Brynolds | 9 | 15 |
| Page 1 Philip Morris | Lo | 14 |
| of teth f. Loriton | 3.0 | 12 . |
| Regular-122 () | | 11 |
| American Tobacco | | 16 |
| Efficient P. Lordines | 3 | 14 |
| Manager Philip Morris | * | 13 |
| BASSISK From & Williamson | 2.3 | 13 |
| 2001 From & Williamson | | 16 |
| du MANATE Calymbia Tabacca | | 34 |
| Williamson & Williamson | | 12 |
| TICES From & Williamson | 24 | 13 |
| FATOMAL SUPPORT & Myore | 2.4 | 14 |
| CHERTISES LABOUR & Myon | 2.5 | 13 |
| PAL American Tebasse | 2.6 | 35 |
| Vindality States America & Hardyn | 2.6 | 15 |
| Publicity Philip Morris | 2.7 | 37 |
| PARLIAMENT Bosson & Hadges | 2.7 | 12 |
| CHAVER & Correct Limited | 2.8 | 35 |
| CAVALITE B. J. Beynoids | 2.6 | 19 |

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cigarettes continued

nicotine content of their smoke Kools were about the same as the popular regular brands.

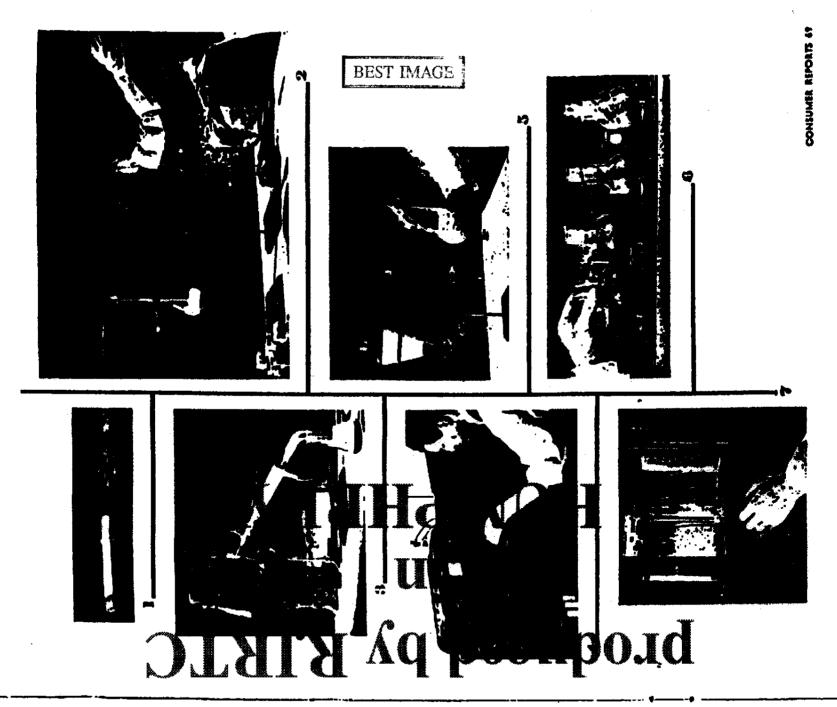
Tars are not found in unamoked cigarettes, but are produced as a result of incomplete combustion. Because of the variability between different cigarettes of the same brand, and because of inherent shortcomings in available test methods, the differences in tar content between brands can be considered only approximate; differences of a few milligrams are of no significance. The tar content of the amoke from Kent cigarettes was found, however, to be consistently low.

Comparison with previous tests

The tests on which this report is based showed a somewhat higher nicotine content for many brands than was found in the limited tests of these brands reported on in June, 1952. CU pointed out at the time that the very small number of cigarettes of each brand tested made those results only approximate. The present results reflect the greater accuracy afforded by the greater number of cigarettes tested. The large difference found in the two tests with respect to Kent eigenettes appears to be mainly—the result of a change in the filter during the interval. CU moted last summer that Kents required "considerably more effort to draw on than do other cigarettes." This characteristic appears now to have been largely corrected.

HOW CU TESTS CIGARETTES

The testing of a cigarette begins with the collection of its tmoke. The eigerette is first fitted into a place bolder 1 and then "smoked" in the laboratory apperates 2. The smake drawn from the cigarette is collected in addition alcohol in the flask (any smoke carried into the glass "train" is trapped in the two vials.) Lowering the level of the water in the vertical gloss take at the end of the train by means of the bulb at the extreme right of this picture drows air through the cicarette. Each pull is made to last for two occords and one puff to taken each minute. Slightly more than two cubic inches (35 cubic continueurs) is taken in with each pull, and each eigerette is smoked down to a butt of just under an inch (23 mm.). In CU's tests, 16 samples of such brand were "smoked" in two runs of eight eigerettes each; the results of each run were determined apparately and then everaged. After each run, the washings from the apparatus are added to the amoke solution in the collecting flack. One portion is steam distilled B to feelets the misotine; amounts are measured with as altra-rialet spectrophotometer 4. Chloroform is added to another portion of the smoke solution diluted with water, The ter is then extracted by vigorous shaking 5, and the chloroform to then drained from the separatory funnels. After this, the chiereform is belief of and the tar residue weighed on a chemical belease T.



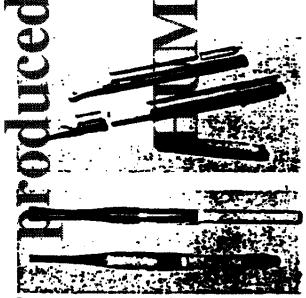
http://legacy.library.ucsf.edu/tid/zrq07a@/pdfe: https://www.industrydocuments.ucsf.edu/docs/qtgl0001

cigarettes continued

with a lonser and, therefore, a more permeable filter. CU's current tests were for nicotine and tar content. Blindfold tests, which have been performed many times by many groups, including CU, and which have almost uniformly shown that smokers cannot with any regularity disfleguish among the popular brands by taste, were not a past of this survey. In the course of its investigation, which have members of its staff who were habitual smokers try out various brands, but no attempt was made to conceal the names of the cigarettes being smoked. Some the comments were interesting. With almost no exceptions the smokers showed the same reluctance to shift afrom their favorite brands that some advertising surveys have shown to exist widely. Many of the smokers said missional not shift from the smoker appreciably less.

The filter holders CU testimates the DeNicotea, in which has is used as the filtering agent: the Medica, in which the of paper is used; the moke, in which alumina is used; the Weber, in which alumina is used; the Weber, in which achircoal is used; and the Zeus, in which a cigarette in the tube acts as the filter. Two of each brand were testadous elegantes held in the after holders were "smoked" as to the cigarette letts, and the process was collected and that he do by the same methods. A typical regular-size cigarettes used then holders as "smoked" on a run of five cigarettes market two blends which proved most

effective on the initial run the Zeus and the De Vicotes-



Zeus (at top) uses a eigeratte on a filter; the stained eigeratte was taken from a Zeus after a pach of eigerattes was quoched through it. Pure-Smoke uses a cartridge of alumina granulm. It differs from the other helders tested mainly in the certridge material

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were further tested for their effectiveness when the same filters were used without change for longer runs. The filtering action of the DeNicotes was determined for the last five of 15 cigarettes, and the effectiveness of the Zeus for the last five of 20. Both were found effective even after such long use. (The DeNicotes effectiveness had decreased and the Zeus effectiveness had increased slightly.)

In length the holders ranged from 3½ to 4½ inches; the long metal tube of the Zeus holders was found to be more effective by itself in removing nicotine than some of the holders with the filters in them. When used without a cigarette inside as a filter, the Zeus tube condensed nearly 20% of the nicotine in the smoke from the first five cigarettes smoked.

Most of the members of a panel of smokers who normally did not use eigerette filter holders found the odor of the filters after a few eigerettes extremely unpleasant. One may have to suffer through a period of building up a tolerance to the odor in order to be able to use one of these filters regularly. Some users found the extra effort of drawing through them objectionable; others disliked the weight of the holders. One found the smoke relatively tasteless, and noted that he smoked more eigerettes when using the filter. While eigerette holders have the advantage of keeping tobacco grains out of the smoker's mouth (an advantage shared by filter-tip eigerettes), they cause the smoke to impinge on a small area of the tongue, which can cause the same "bite" that pipes cause.

One unhappy tendency of amokers who use a filter holder is to smoke cigarettes down to the very end, thus negating at least a part of the nicotine-removing effectiveness of the filter. Another tendency, which has the same effect, is to smoke deeper puffs with a holder than without.

RATINGS OF FILTER HOLDERS: Listed in order of their effectiveness in removing nicotine from smoke.

2005 (L. & H. Stern, Inc., NYC), \$1.50 for regular size which uses an ordinary cigareste as the filter; \$2 for the "deluxe" which can use a king-aim cigarette as a filter. Removed 44% of the nicotine and 33% of the tar from the amoke of the first five cigarette amoked, when used with a regular-sized cigarette as a filter: it would do slightly better with a king-aize cigarette as a filter. It removed 50% of the nicotine and 33% of the tar from the amoke of the fourth act of five cigarettes smoked. Has a butt ejector.

Demotra (Alfred Dunhill of London, Inc., NYC), 2250 for men's helder with 10 refill cartridges: 33.50 for longer women's helder with 12 refill cartridges. Silica filter. Removed 35% of the niceties and 35% of the tar from the smoke of the first five cigarettesmoked: 35% of the niceties and 17% of the tar from the smoke of the third set of five cigarettes. Refill filters, 10 for 35c. Her a butteriote.

FURA-SMORT (Continental Brier Pipe Co., NYC). \$1 with 5 selfcartridges. Alumins filter. Removed 21% of the nicotine and 33% of the tar from the smoke of the first five eigerettes smoked. Refill filters, 10 for 25c. Has a butt ejector.

MIDIOO(S. M. Frenk & Co., NYC). \$1. Paper roll filter. Removed 19% of the alcotine and 17% of the tar from the amoke of the first five eigenstee smoked. Refill filters, 10 for 10;.

WHIR (so manufacturer shown on package). SI with 5 radil cartridges. Charcoal filter. Removed 10% of the nicotine and 11% of the ter from the anoke of the first five algorithm smoked. Redil filters, 10 for 85c.

are they harmful? Perhaps—each smoker will

have to decide for himself whether the satisfaction is worth the risk

So intimately is tobacco bound up with the life of America from the early Virginia settlements and the plantation companies and the daily advertising barrage—that any discussion of the health aspects of smoking is bound to the health to a strong and individuals.

excite the hostility of some groups and individuals.

Interferor the first World Talkinhen cigarettes were much less important in the topicco business, they were damned the cipally as a foppish effectation and on moral grounds, as a kind of symbol of tone living. The indictment new is that cigarettes.

It is that cigarettes.

It is the most pernicious care the most pernicious care the most pernicious them includes irritation of the respiratory tract. Even and tongue; interference with appetite; bad breath: some doctors insist that morang other such. In addition, some doctors insist that interferes with judgment, depresses the emotions, inhibits sexual potency, the latest and believes inhibits sexual potency, the latest and believes and causes cancer of the lune.

on the other side of the compoversy, we find the tobacco industry and its hucksteen claiming that smoking will steady nerves, relieve irritate unreats, banish coughs caused by any rival company's tobacco, and promote social case. Against this background in might be a good idea first to clear away some of the misconceptions concerning the effects of tobacco and tobacco lagradients on human beings.

inine misconception and ome facts

thomas Edison. like many others distinguished in the arts or sciences, had specially inions on this subject; he believed that eigerette paper was responsible for many of toxic symptoms cause many making. Subsequent study thousand that the part played by paper in the reaction to smoking is insignificant.

Proper moisture content of the tobacco is important for a satisfactory smoke; a moistening agent, such as glycerine or diethylene glycol, is usually employed in the processing that tobacco. According to Professor H. B. Haag, of the Midical College of Virginia, Richmond:

Discussion, at times somewhat aerimoniously tinetured, has waxed concerning the relative merits of those two agents as they affect the fritating properties of cigarette smoke. The more recent studies all are inclined to the view that neither agent shows superiority over the other in this respect.

Tobacco smoke is invariably irritating, irrespective of the type of moistening agent applied.

In addition to nicotine, tobacco smake contains earbon monoxide, ammonia and other volatile alkaline materials, acids, phenols, aldehydes, and other materials comprising tar, The heavy smoker inheles a considerable amount of carbon monoxide from the incomplete combustion of tobacco in his cigarette, pipe, or cigar. The carbon monoxide combines readily with the hemoglobin of the red cells and the smoking of two packs could result in saturation of as much as 7% of the hemoglobin with carbon monoxide. But it has not been established that this degree of saturation is responsible for any of the toxic effects of heavy smoking. Nor is there any knowledge about possible long-time effects of this amount of carbon monoxide. Obviously, more research on this problem is needed.

Nicotine: pure and in smoke

Of all the components of tobacco, nicotine has been the focus of greatest interest. The use of denicotinized tobacco, and of special tobaccos cultivated for their low nicotine content, are reflections of this special concern with the properties of nicotine. While the toxic effects of pure nicotine in specific doses are well known, there is a considerable difference of opinion concerning the extent to which nicotine of tobacco smoke is harmful to health.

. In a limited study recently made in the Laboratory of Applied Physiology of Yale University, Drs. Greenburg. Lester, and Haggard found the average nicotine content of the cigarettes they tested to be 17.2 milligrams per gram of dry tobacco. (The average nicotine content of the cigars tested was found to be 17.4 milligrams per gram of dry tobacco.) Since nicotine must be absorbed by the body in order to exercise any effect, the Yale doctors investigated, among other things, the effect of inhaling on the amount of nicotine absorption. They found that a very small amount is absorbed when a cigarette or cigar is smoked without inhaling (other studies have shown that if the smoker does not inhale, but does hold the smoke in his mouth even for a few seconds before expelling it, the nicotine absorption is much higher). But with inhalation, virtually all of the nicotine present in the smoke is retained by the body. In sum, they found that when eigerette smoke is inhaled, about two and a half milligrams of nicotine is retained in the body (see page 68 for CU's findings on the amount of nicotine in cigarette amoke). Inhaling is much more common among cigarette smokers than among cigar and pipe smokers. Whatever the reason, it is apparent that, in general, for the same quantities of tobacco, inhaling eigerette smokers absorb considerably more nicotine than non-inhaling cigar and pipe amokers—or non-inhaling cigarette smokers.

According to one investigator, there is no relation between the so-called "strength" of tobacce and its nicotine soutent. The strength of a tobacce depends primarily on Continued on next page

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Cigarettes continued

aromatic substances which are volatile and which, for the most part, are formed during the process of fermentation

before the tobacco is dried.

Modern knowledge of the properties of nicotine began with the famous experiments of the English investigator, Dr. J. N. Langley, who painted solutions of nicotine on the gamilis of the autonomic nervous system. It soon became apparent both from these and later studies that the effects of shoutings in human beings are exceedingly complex. The drug sets on three main areas of the nervous system: 1) on all the ganglia of the autonomic nervous system: 2) on the junctional livers the nervous and the nuclear: and 3) on the igain itself. At each of these sites, it first stimulates and then depresses function. Consequently, six possible types of receipts may go on at different gates and at different time and the interest in involved, and at all the selects.

Observation of smoking are form of pointing out that a few intiligrants of nicotine applied with skin can cause death. Fortimately, this drastic remaining possible except in change plants or laboratories where the concentrated

drug**ia linad**ed.

Ose's arse smoke, whether of a circulte, a cigar, or a pipe, is almost always associated with soute toxic symptoms—notably, nausea, vomiting, headache, and ditriness—and it in whalle that most of the symptoms are caused by the dicotine. With continued underest, habituation to the drugsteters; the corone heavy smoot; can absorb and handle manners of nichting that while seriously poison's non-smoker. Since acute intoxic thin, by nicotine is a rare accident, or a plasing phase it is a well-dependent of the smoker.

Heart ilood vessels

The carrier effect of nicotine in smoke on the heart and blood velieb has been the subject of considerable experithe and clinical observation. But even if one mental re penies with pecial interests, it is still difficult to draw incontentiale conclusions from members are experimental conclusions from management experimental ime the opinion was expressed that smoking belerosis, or harden! e arteries. Persons with Orina poctoris" were forbidden to use tobacco, sen tests showed that injections of pure nicotime cand transient rise in blood pressure and heart rate. Mofe critical studies have since shown that neither' nicotine Thy other component of tobacco causes arterioscierosis disease whose essential cause or causes are still unktown

still unknown?
Smoking temestimes does cause palpitations, extra heart beats, or even peroxysme of rapid beating, but such symptoms occur without evidence of interference with the blood supply to the beart and probably reflect the influence of micotine on the nervous and muscular irritability of the heart itself. Cartainly, it is simple common sense for anyone sensitive to micotine either to refrain from amoking, to re-

duce the number of cigarettes smoked daily, or to try cigarettes of low nicotine content. Switching to a pipe might also be helpful.

True "tobacco angina," a condition in which pain in the chest occurs after smoking, is quite uncommon; even when it does occur, it does not necessarily mean that the pain is associated with changes in the coronary artery circulation of the heart. It does mean special sensitivity in the amoker, however, and again simple common sense should tell him what to do. As for persons with some form of organic heart disease (valvular disorders, coronary disease, etc.) the comments of Dr. Robert L. Levy of Columbia University, College of Physicians and Surgeons, probably represent the point of view of most heart specialists:

Patients with any form of heart disease usually are advised to abstain from the use of tobacco; yet it has been out experience that over a period of years most of these individuals have smoked moderately without apparent harm. If one may judge by the amount of tohacco consumed, smoking affords a good deal of pleasure to a large number of parsons; for many it provides emotional stability.

In this connection, it must be pointed out that "moderate" means different things to different persons. To the heavy smoker who consumes two to three packs of cigarettes a day, moderate smoking may be one pack; to others; moderate may mean five to ten cigarettes a day. Each individual must determine for himself, or with the aid of his physician, just what his tolerance for tobacco is.

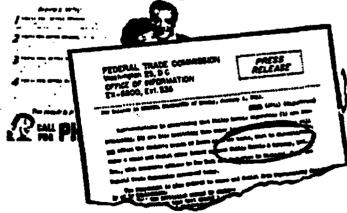
Dr. Levy also points out that, on the basis of new techniques for estimating heart function, tobacco amoke causes relatively little change in the activity of the heart.

There is [says Dr. Levy] considerable variability of effect in both normal persons and patients with heart disease, but this depends to



when you change to PHILIP MORRES!

Here are two ads, both with part of campaigns resulting against eigenvite companies, have been on the receiving health themes, but health the \$31. Other big brands who appeals include Camela, P



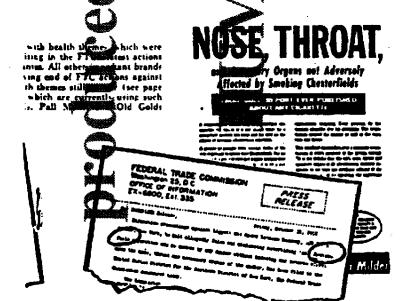
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a greater extent on individual asserptibility than on the presence of a cardier disarder. . . Because of the enjoyment afforded and the feeling of satisfaction obtained, it is our opinion that the majority of patients with insertive forms of heart disease may be permitted to amake in moderation. Those who are sensitive to alcotine will fare better by abstracte. There are certain conditions in which smoking should be forbidden, because any increase in the work of the heart, however slight, is to be avoided; among those are congestive heart failure, the neute stages of cardiec fiffereston (coronary thrombonie) and series should see addice the peripheral vareater disease should use soluces beginns with peripheral vareater disease should use soluces beginns of its constricting action on the peripheral varsels.

The last sentence states an incontestable fact: that nicotine because of its action in reducing blood flow through the process of the extremities, is harmful to patients with Buerger's Disease (thrombo-angitis obliterans) or similar disease of the blood vessels of the extremities. Because of unusual sensitivity of such patients to aicotine, comparing abstinence from smoking the single, most important requirement for successful reatment. The benefits of comparing abstinence have been proved so conclusively that it is doubtful that any physician ground justify the use of even on siciparette daily, even important the lowest available nicodiff content, for a patient with fluerger's Disease or periodical vascular disease of the attentions.

The respiratory tract

That all cigarette smole is irritating, particularly to the cours membrane of the profit of the prof



tory tract from smoking. Even those who smoke only a few eigeneties a day may be subject to an annoying tickle or cough. However, it is dangerous to assume that a cough is caused by smoking until at least three steps have been taken: 1) an X-ray examination of the lungs: 2: a history and physical examination by a physician to exclude the presence of other disorders that can cause chronic cough: and 3) abstinence from smoking for a while, to find out whether this will lead to complete relief from the cough.

Varying degrees of hoarseness and voice fatigue are symptoms of "smokers' larynx." Swelling, redness, and even thickening of the vocal chords are consequences of

prolonged, heavy smoking in some persons.

Cancer of the lung

In the past few years the focus has shifted from the influence of smoking on vascular disease to its possible relation to cancer of the lung. Vital statistics show few trends more dramatic than the rise during the past 30 years in the death rate from cancer of the lung. Only a part of this increase can be attributed to aging of our population, or to improvements in diagnosis by physicians. The rising incidence of cancer of the lung is assumed by some experts to result from several environmental factors. among them surface dust from tarred roads: exhaust fumes from - motors: fumes, dust, and smoke from gas works and industrial plants; and, lastly and closer to many hearts, tobacco. The most vigorously advocated hypothesis today is that heavy smoking (more than 20 cigarettes a day) over a period of many years is one of the most important factors. if not the most important of all. This hypothesis seems to be particularly plausible since there has been a progressive rise in the use of tobacco, particularly of cigarettes, parallel with the rising incidence in lung cancer.

Experimental work with animals has not conclusively implicated tobacco as a cause of cancer of the lung, despite the fact that tars collected from tobacco amoke can produce cancer in some animals. Arsenic is also a well known carcinogenic agent, capable of causing cancer both in humans and experimental animals, and in the United States tobacco leaves are aprayed heavily with lead arsenate to control insect infestation. Studies of the arsenic content of whole tobacco and of tobacco smoke, both in England and in this country, show that appreciable amounts of arsenic are present in cigar, pipe, and cigarette tobacco; that from about 8% to 18% of the arsenic in the tobacco may be found in the smoke; and that "main stream" smoke, when inhaled, can introduce into the respiratory tract an appreciable amount of arsenic over a period of years.

That arsenic is inheled in tobacco amoke does not prove that arsenic causes cancer of the lung, nor, even more important, that smoking causes cancer of the lung. More conclusive experimental and clinical data are needed. To help settle this point, the American Cancer Society has undertaken a special project of real importance. From 200,000 to 300,000 men, between the ages of 50 and 69 (the period in which cancer of the lung has its highest incidence), will be questioned and kept under observation for several years

Continued on next page

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cigarettes continued

by volunteer workers of the Society. Volunteers in selected counties of ten different states will record the smoking

and medical histories of ten men each.

The follow-up method of study of the American Cancer Society should overcome some of the deficiencies in provious methods of investigation. But it will be several years before answers will be forthcoming. If it should be proved that heavy tobecco amoking (perticularly of eigerettes)
over many years is a factor in the cause of cancer of the
lung. It will then be up to the amoker to determine if he wither to take his chances in acquiring cancer of the lung he for the comforts, pleasures, and stimulant or nedative effects that amoking provides. Car-driving on Americandroads is the leading cause of accidental death

Associate most of us take the bick.

The part most of us take the bick.

The part most of us take the bick.

The part most of us take the bick.

The part most of us take the bick.

The part most of us take the bick.

The part most of the body in physical part of mance and endurant most of the body in physical part of mance and endurant most part most part most modely among in a viduals. While some most mode in moders to be part of the
tensity, as to lead to the development of the consist of "leukoplakia" of little the This thickening is considered a potential cancerous or pre-cancerous condition. The the consists is desirable the pre-cancerous standing is usually him pear it is to be the pre-cancerous standing in usually him pear it is predicate as a factor in causing disease of the stomachamatatastines, a recent, erithmentally was done by Dr. Batteriann and Ehrenfeld the Liniversity, College of desirable that "tobacco

of New Yerk University, College Control of the Control of Party of published work has convinced them that "tobacco a factor in all transpation of peptic ulnot . . a factor in a section of peptic ulthere is epidence that "smoking may result in functional disturbations which may simulate organic disease or aggravate manufunctional or organic disease." It is particularly the person with an active peptic ulcer who is likely to be barrage by smoke. His response to treatment will be estisfactory then that of the patient who gives up smaking entirely.

Reres tobecco smoking may cause a disorder of the eye excreted as "retrobulbar neuritis." associated with varying regress of impairment of vision.

In liew, of the incontestable toxic and irritating effects of to to the possible connection between the possible connection between the regardite smoking and cancer of the lung, it may properly be saked whether the pleasures and comforts for tempering are worth the candle. To denounce the habitual smoker as a weak-willed, degenerate addict digging his own grave is hardly a reasonable answer to a blem involving millions of normal, well-adjusted persome who are habitual amokers. Although craving is exhibited by beavy amekers when tobacco is removed, there is no evidence that true physical addiction occurs, as

with enjury drugs. Nor is there evidence that profound psychological disturbances occur when tobacco is withdrawn. According to Professor William T. Saker of the Yale University School of Medicine, "It would seem . . . that tobacco is as habit forming as breakfast coffee, chewing rum, lellipops and several other forms of habitual indulgence."

The lasue is not whether tobacco is habit forming-since everyone is agreed that it is. The issue is whether the tebacco habit is so harmful as to require a serious reduction in smoking or even complete abstinence. This issue is net resolved by pointing to Raymond Pearl's famous report of 15 years ago, which showed that beyond the age of 30 only 63% of habitual heavy smokers could expect to survive to the age of 50, as against 81% of abstainers, since it was not at all made clear in that report whether the shortand life expectancy was due to tobacco or to some nervous condition which predisposed toward the use of tobacco.

However the habit is acquired, smoking is an activity that serves to reduce the inner nervous tensions and strains resulting from man's exposure to the stresses and responsibilities imposed by society. It helps him to perform more effectively in his work and personal relationships. It would seem to be, at the least, a less harmful method of adaptation than alcohol addiction or even, in many cases, evereating. Many doctors have noted that when a patient succonstully gives up tobacco, his appetite increases and he puts on weight. But it is questionable that overeating (and its consequence, overweight) is a more desirable habit than smoking; certainly it is not for some persons with beart or vascular disorders.

To summerize

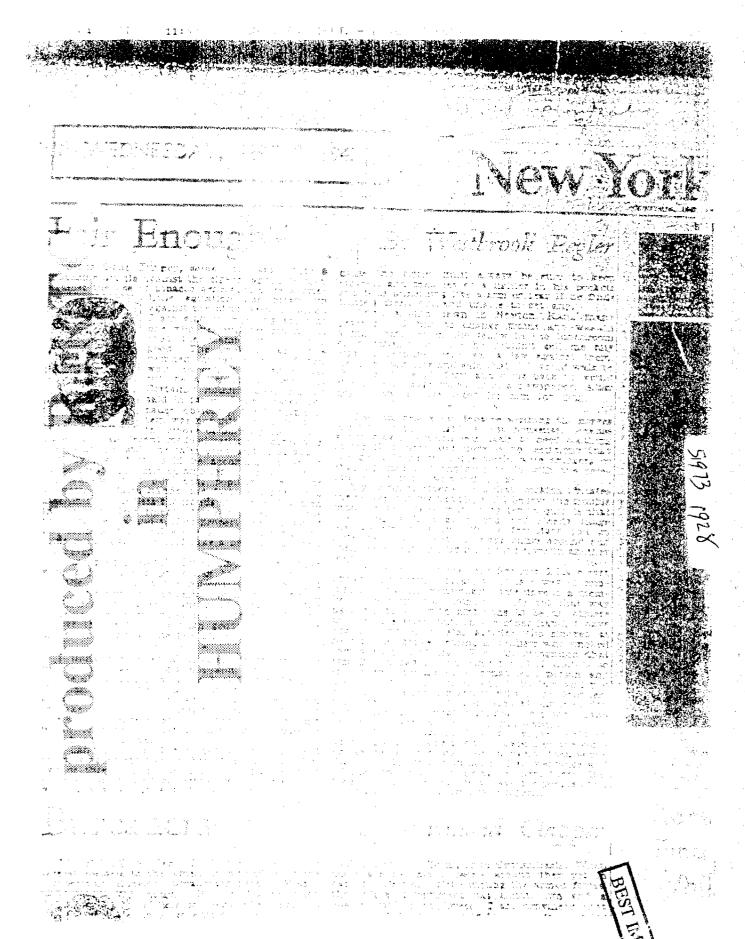
There are instances, as in Buerger's Disease and similar affections, where the risks of smoking are so serious that despite the satisfaction provided by smoking, it must be sacrificed to avoid loss of limb, sight, or life. In leukoplakis of the mouth or tongue brought on by smoking, the probability of cancer development is serious enough to demand a similar prohibition. In ujcer of the stomach and some other aikments, although micotine can be an aggravating influence, some physicians, nevertheless, permit moderate use of low-nicotine cigarettes on the ground that any physical irritation is offset by the analysesia amoking may offer against life's problems

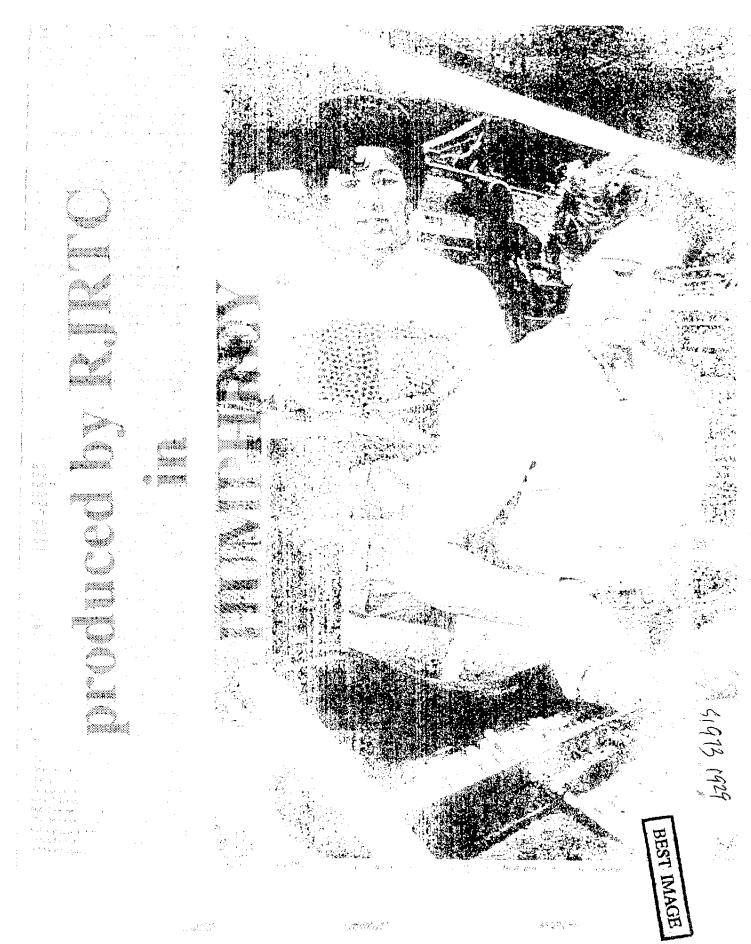
As for cancer of the lung, while it has not been conclusively proved that heavy smoking is a major factor in its rising incidence, the evidence for such an indictment is very suggestive. Until proof is forthcoming, it is obvious that those who can should cut their smoking to what is considered moderate levels—certainly not more than a pack a day. Those who cannot should understand that they are taking a risk of unknown dimensions, and should get an X ray of their lungs every six months.

For these who wish to overcome the tebecco habit, docters often prescribe strong astringent mouth washes or riness. Proprietary tablets or locanges containing similar entringents, as well as neurositing drugs, are also sold. It has never been shown that such proparations are an effec-

tive long-range ourb on the smeking habit.

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MEDICAL MAILBOX.

By Cory SerVaas, M.D.

"A few observations and much reasoning leads to error; many observations and little reasoning to truth." —Alexis Cazzel (1873-1944)

What exactly does emphysema do to the lungs? Since it is not a contagious infection or tumor, how does it affect the lung tissue? What causes emphysema to leave one short embreath? My husband smokes a pack of cigarettes a dayand I think he is getting emphysema.

Healthy lungs are made up of a soft spongy tissue containing millions of tiny air sacs called alveoli, each one opening off the branching as passages called bronchi. When the healthy person takes a deep breath, air fills these tiny air sacs, and through thin alveolis was oxygen passes into the ploodstream, while carbon dioxide from the blood passes into the air to be exhaled when the lung empty.

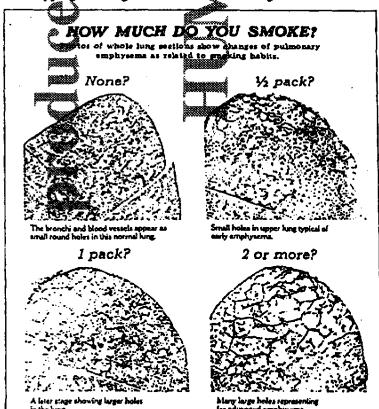
the lungs emisty.

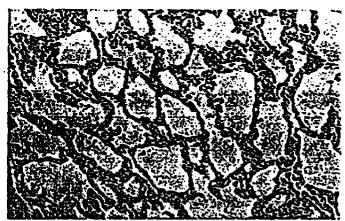
Emphysesia occurs when the algeolar walls disintegrate, resulting in less surface for the oxygen/emison dioxide-exchange. The many small alveolar sacs are replaced by coarse "holes" in the lung time sace diagrams).

As the disease progresses there of course less lung tissue in contact with the air, and the lungs work less efficiently. Understandably the person suffering terms emphysema struggles hard to breaker, gapping and wheezing in an effort to pull more air into the parts of his larger that shift secretion.

tandably. The person surreing sease emphysema struggles nard to breaker, gasping and wheezing in an effort to pull more air into the parts of his large that still function.

Unfortunately for cigarette smokers, the early diagnosis of emphysema presents difficulties and the disease may progress without symptoms parts. The earliest symptom is shortness of breath, especially with exertion. There is no reversing the course of the disease since the large manot regenerate lost tissue, but stopping smoking can arrest further damage.





Cross section of normal lung tissue, showing many small air (alveoli) with relatively thick wells surrounding and separating



Reprinted with permission from Medical Resources Program, Indiana University

Cross section of lung tissue damaged by emphysema, showing er
air spaces and thin, broken alveolar walls.

I have read that drinking low-fat or skimmed milk; than whole milk helps to prevent the artery diseas can-lead to heart attack or stroke. I have also read artery disease is becoming increasingly common a young people. Does this mean that children should low-fat rather than whole milk?

At present the consensus among nutritionists is that milk should be recommended for most children. Whole mi tains 3.5 percent fat as compared with 2 percent in low-fall children are normally active their bodies will convert the fat into energy and it won't cause problems. Desk-bound and sedentary teenagers are butter candidates for atheros (fatty deposits in the arterial walls) and they are the on should be drinking low-fat or skimmed milk.

There are special cases where low-fat or skimmed recommended for children. These would include childre are greatly overweight and children who suffer from an in metabolic defect that causes a high level of cholesterol

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NO SMOKING: NO IFS, ANDS OR BUTTS

Nonsmokers are lighting up over the good news that entire buildings, planes, restaurants and lodgings are now off limits to smokers.

by Nick Thimmesch

A that dedicated gang of activists determined to clean up the indeor air and also to persuade people to cut smoking, is having a profound and even fascinating effect on the nation is business.

Passennel directors, learning that an employee who smokes can tost a firm up to \$4,500 a year, are having second thoughts about hiring smoking on the job Managers reflect on ship agestion when an employee wins a cash settlement, successfully lifegating a claim of damaged lealth second orking in a smoke-ridden environment. High-level second completely quit smoking, and seat only once filled of the adults in the United

States now smoke.

The business community's reaction shows up in the help-wanted ads specifying that "only nonsmokers need apply." Radar-Electric Inc. of Seattle hands applicants a form with "Do You Smoke?" written in red ink at the top. If the answer is "Yes," applicants are told to forget about filling in the rest of the form.

Increasing numbers of companies have greatly restricted smoking on their premises. Big corporations such as Mobil Oil, Sears, Johns-Manville, Xerox, the Bank of California, and Travelers Insurance took the lead in this category, ruffling some employees' feelings in the process.

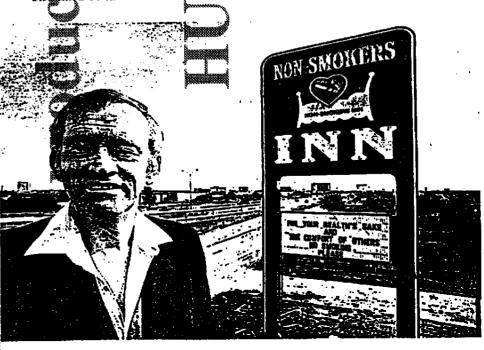
Similarly, federal workers must now abide by smoking-zone regulations. A number of states have passed comprehensive bills affirming nonsmokers' rights, and some states greatly restrict smoking in public buildings. Minnesota's "Clean Indoor Air Act" requires no-smoking areas in all buildings open to the general public. Bars and tobacco stores are excepted.

The national trend is clearly for greater expanses of no-smoking areas in our public life. The residue of smoking costs big bucks in cleaning, maintenance, repair and replacement. The financial penalty in lowered productivity, absenteeism and health, disability and death benefits makes any corporate or government bottom-line specialist become a potential convert to the no-smoking cause.

Interestingly enough, some businessmen are seeing the marketing value of providing a smoke-free environment to their customers. When Lamar Muse started his perky Muse Airlines in 1981, he frankly needed a gimmick to set Muse off from all the other airlines competing for Texas travelers. Aware that the smoking section on any plane has shrunk in recent years, Muse, a 30-year veteran of the business, announced that his new airline would be strictly "no smoking."

Results? Muse got considerable publicity, has a seatload factor quite good for a newcomer and is making money.

Thrifty-Rent-A-Car, the nation's fifth largest in this field, designated 12 percent of its fleet as no smoking in late 1982 and reports "extremely good results." Thrifty received many letters from grateful non-smokers and inquiries from two other big car-rental companies who are considering putting a part of



One night in a Kansas City motel, the pillow on which Lyadon Sanders was sleeping recked so badly of smoke that he decided to start a nonsmoking inn. Among the

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their fleets into the no-smoking

Hotel operators, who are traditionally willing to cater to the whims and variety of lifestyles of their guests, are now setting aside entire floors for clients who want a smokefree environment. Many hostelries, including the luxurious sort in the Hyatt Regency, Radisson and Four Season) chains, provide rooms research strictly for nonsmokers. At this writing, there is one motel bassatzir bold enough to designate his entire establishment as no smoking: The "Non-Smokers Inn" in

The entrepreneuers who felt the first pressure of the memoking movement atc. restaurant and cafeteria owners For many dine there is nothing more obing into the nostrils and mouth while enjoying a meal

Many restaurant operaton Have responded to the piaints by namehokers and have tried to set aside nonsmoking sections and if some instances have ever made ure that their estab lishmehus are entirely unpolitical by any pernicions. smake fumes. There is no official count available on the much ber of such dining but they're increaspláces. ing at a rapid rate. sisting nonsmoking move-

men pread throughout this country during the '70s, so did "rietworking," the practice of exchanging information and advice amage any group of people who have a common interest. The pidneel organization ASH (Action on Smoking on Health) became the focal point for the litigation, lobbying and the public-information activity of the budding movement.

Now, in the economic area, it is Muse Airlines, founded and run by Lamar Muse and his son, Michael, which has assumed the chore of coordinating the efforts to provide complete travel arrangements specifically designed for nonsmoking customers.

Muse operates out of Dallas. Houston, Midland/Odessa, Tuisa and Los Angeles. So the Muses,

idea of offering nonsmoking travelers in these markets not only the smoke-free ride in one of their DC Super-80s, but smoke-free Thrifty-Rent-A-Cars and lodgings in nine hotels and motels providing a smokeless environment. So now travel agents have one more "package" to sell—this one for nonsmokers.

Lamar Muse, 62, is known as a willful, flamboyant and successful airline executive. Years ago, he was the principal figure in launching Southwest Airlines in Texas. Yet his vigorous manner of giving orders

"Have you seen the cat?"

got him into trouble with Southwest's board, and Muse was surprised when they accepted his resignation as president in 1978.

He was 58 then and had 30 years in the airline business, but felt too young to quit. He waited until 1980. when his contract with Southwest expired, freeing him to start another airline. He named it after himself. Muse Airlines was up, up and away on July 15, 1981. Its target of competitive opportunity? Naturally, Southwest. But Muse Airlines needed an emblem to make it stand out.

"We were competing with an airline that Lamar had made famous," explains Edward W. Lang, Muse vice president, "so we needed something to set us apart, something they couldn't match, something to get us

Lamar Muse, who had just quit smoking after 40 years, made the bold announcement that his would be the first nonsmoking airline. He also began issuing statements as to why he quit smoking.

'I started feeling as though there was an elephant on my chest," he said of his addiction to cigarettes. He added the reflective observation that his first wife, Jaunice. "smoked those darn Camel cigarettes until the day she went into a coma."

Muse knew how to get to people's consciences, as well. "We know that

there are a few confirmed smokers, who, even though they spend an hour in church every Sunday without smoking, will ride the competition's plane on the 50-minute flight between Dallas and Houston because we prohibit their smoking," he proclaimed the day when his airline was launched.

There are cynics in Dallas who claim that Lamar Muse, who once flipped cigarette butts onto his lawn or anywhere else every five minutes, had trained himself to stop smoking just so he could have a gimmick for his new airline.

Muse swears this isn't true, but admits that his nosmoking edict for his airline was "purely a marketing decision.

"This country has changed," he says. "Our surveys indicated that 9 out of 10 airline passengers prefer nonsmoking."

Still, son Michael, 33, a lifelong nonsmoker, wasn't sure that the smoking ban would work and worried that smokers would shun the new airline, leaving it to only ideological nonsmokers. "I had to prevail," recalled Lamar, who made himself chief executive officer to Michael's mere presidency. "I just said, 'that's the way we're going to do it.' "

Muse the elder reasoned that since their airline's principal trips were 50 minutes, only 30 to 40 of which could be used as smoking time, smokers wouldn't mind the relatively brief abstinence period.

To keep smokers happy, Muse gave them "Smoker's Survival

father and son, came up with the a lot of press and publicity." gave the http://legacy.library.ucsf.edu/docs/qtgl0001

Kits," little packets containing a puzzle, chewing gum, candy, and a form offering "heavy smokers" a free return trip if they sign their names after this statement: "Sorry, I thought I could make it without smoking, but I couldn't."

Very few passengers have sent in the form. According to Edward Lang, the overwhelming majority of responses to the smoking ban have been confusiastic approval.

"My wife is a chain smoker," a California man wrote. "She felt the excellent service and friendly personnel made up for the loss of being arm to smoke. However, she might start chewing tobacco as an alternative."

"I'll fly viuse when I can because you don't allow smoking the passenger, "a confirmed smoker," extend "great fears that allow not be able to sustain myself, but said the congenial crew and cleah airplant made him decidently Muse again. Yet another letter was signed by 20 people expressing appractation for them no-smaking policy and saying. "We love you." Lang says proof of lovairy to Muse is the fact that, at certain

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Lang says proof of lovally to Musy is the fact that, at certain times the ing the day, Southwest has Dallas Houston flights every 5 minus, while there is one every hour by Muse, and yet Muse passengers ill wait.

flight." Lang says, "the next one is 9:00 a.m. They could catch the extraction of the same even three Southwest flights before 9:00, they stick with us

Languays Muse's load factor is 58 percent just four points behind Southwest's.

When Lamar decided to introduce Dallas-Los Angeles run, the old gouds surfaced again. Asking smokers to hold off for 30 to 40 minutes is one thing, but could they sit still for the three-hour flight to the West Coast?

"I called on 13 travel agencies to convince myself," says Lang. "All but one told me not to have Muse go back to smoking. They said we had built a loyal base of customers."

Muse can rightly claim that its
planes are the best smelling; airfilters have to be cleaned once every
six months instead of every six
weeks; and crew members' absenteeism and sick leave costs are less
than airlines that permit smoking.
http://legacy.library.ucsf.edu/md/zequ/ma60/poffw.

THE SATURDAY EVENING POST

Although Lang claims "Muse is not part of the antismoking movement," the airline has joined promotions by the American Cancer Society ("The Great American Smokeout") and the American Heart Association (making donations to AHA for each round-trip ticket purchase).

The no-smoking rule on Muse presents occasional problems. Some smokers repair to the restrooms and puff away, thus violating the ban and endangering the flight, because lavatories are quite vulnerable to catching fire and airplanes on fire are deathtraps. Muse trains its flight attendants to be especially attentive to this potential, and it has installed smoke alarms in the lavatories.

And while Muse got an enormous amount of publicity for its nosmoking policy and its alliances with the American Cancer Society and the American Heart Association, there is no ban on smoking in Muse Airlines offices or for that matter in the cockpit of Muse planes. "Pilots can smoke while flying," Lang admits. "They have to keep the door closed, of course. I guess 30 to 40 percent of our pilots are smokers."

Still, Muse flight attendants go up and down the aisle, tending to passengers' comforts, even thanking them for flying with Muse.

"One passenger replied, 'I had no choice,' " says Lang. "He was a prisoner being taken to Texas. The security officer told him his sentence would start on the flight because this prisoner was a heavy smoker."

Thrifty-Rent-A-Car has designated 2,700 of its 22,000 cars as no smoking and offers them in 60 cities. "The response has been tremendous," says Douglas E. Harrison, Thrifty's vice president of operations. "These cars just smell fresh and clean, and that's why people ask for them."

"Thank You for Not Smoking" signs, as well as the international symbol showing that smoking is banned, are placed on the doors, dashboards, ashtrays and trunk decks of these cars.

"We researched the marketability of no-smoking cars," says Harrison, "and concluded this alternative made good business sense. The majority of people today are nonsmokers.

"We save on cleaning costs from not having to repair burns on the



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my travel agent

carpets and the seats. Smoke film doesn't build up on the windows. And when we go to sell the car, we do better than we do with other cars because the no-smoking cars don't have that used smell.

"It's a matter of relying on peopie's integrity when you ask them not to smoke in these cars. If they reach down for the ashtray, they'll discover it's full of mints. We think the smokers who rent nonsmoking the smokers who rent nonsmoking the smokers who rent nonsmoking

good response" from customers us-

and says two other major ental companies has asked Thrifty how this innovation works.

When a guest registers and the constraint on the constraint on the constraint on the constraint of the

The agreement specific that the guest, any person in my party or guest of mine will sende in the room repted.

If that agreement is violated, the guest must pay \$100 or "leaning and detoxification charges," and if a sun is fled for violation the guest must agree to pay reasonable" attorneys and incidental expanses that the inn incurs.

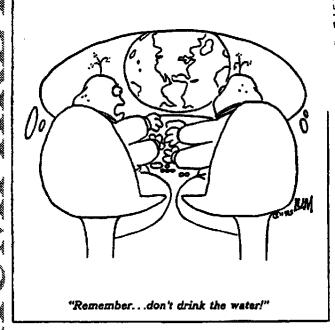
This is a rather transport of the prohibition, but it hasn't kept people away from the one and only nestelry in the republic which has an isolute ban on smoking anywhere on the premises. Moreover, if a great is caught smoking and insists the premises tinuing, he or she can expect to be evicted from the premises. That's how determined Sanders is.

Perhaps a half-dozen of the 65,000 guests who have stayed at the inn since it opened in March 1982 were involved in smoking, and each time it caused a ruckus akin to that at the Ivory Soap company the day one of the "It Floats" bars sank in the company swimming pool.

"One of them was a doper," says Sanders, 54. "He left his dope paraphernalia, which we confiscated along with his other personal effects. He never returned to claim these things.

"Two other instances involved a guest's visitor who reached in from habit and lit a cigarette. The guest flushed it down the commode immediately, and called us. We made an inspection and used a deodorant. The guest agreed we could inspect the room on checkout, and if there was any trace of smoke, the \$100 would be paid for super-cleaning. We inspected, and there was no trace."

Sanders' associate is Wandra Hodges, 45, a militant antismoker, married to a smoker for 25 years



before she divorced him. "I collected once from two young men who got right in the room and let their guests come in and smoke," she said. "We couldn't rent that room for two weeks. We fumigated and super-cleaned it, and still, a guest came in one month after that and said she could smell the smoke. She was super-sensitive, so we moved her to another room."

When Sanders was a youth he smoked, but soon came to hate it with a passion. After a career as a teacher in the '50s, he finally settled into the motel business. Recalling nights in rooms smelling of smoke residue, including one bad night in Kansas City where "my pillow reeked of smoke," Sanders determined to put his antismoking conviction into practice.

On March 15, 1974, a date as sacred as the fall of the Alamo to this Texan, Sanders opened a 15-room section of his Dollar Inn in Albuquerque, New Mexico. The section soon recorded the highest occupancy rate in the motel and was expanded to cover half the rooms in the 218-unit inn.

"We had guards patrolling the inn in Albuquerque," says Wandra Hodges, "and they had German shepherds with them. If a guest smoked in a no-smoking room and made trouble, the dogs would be a help. If the smoker still didn't co-

operate, we would call the police."

Actually, troublesome situations at either of Sanders' inns are rare. He makes the plausible claim that nonsmokers are better behaved as guests. "They are more thoughtful than smokers," he says. "We have never had to call the police for drunkenness.

at Non-Smokers Inn."

Sanders claims that operating costs at his Dallas inn are 30 percent less than they are in a conventional motel because of savings in cleaning, replacement of drapes, carpets, bedding and even furniture, which can be marred by burns. This saving, he says, makes it possible for the Non-Smokers Inn to offer rates ranging from \$32 to \$56 a

theft or other type problems

night (Governor's Unit), somewhat lower than those of motels with comparable facilities.

The inn's rooms are quite nice and verge on being luxurious. They have two touchtone phones (one in the bath), color TV (on cable), an FM radio, comfortable, large beds, a free health spa and swimming pool and complimentary coffee or tea in the morning.

The security is quite good. A magnetic card opens the room door. There are guards inside and out, according to Wandra Hodges. And of course, the danger of fire is minimal since a major cause of fire—smoking—is monitored by special smoke detectors in each room.

If nonsmokers are better behaved and more productive, as no-smoking advocates believe, then the Non-

http://legacy.library.ucsf.ec&u/tid/zrq07/a00/pdfw.industrydocuments.ucsf.edu/docs/qtgl0001

THE SATURDAY EVENING POST

Smokers Inn personnel should be a cut above the run of motel employees. Why? Because Wandra Hodges will not hire smokers.

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Moreover, she makes all new employees sign an agreement stating:
"I do not smoke and I will not smoke. Further, in the event I have been around those who do smoke for any reason, and it is noticeable, I will change my clothes, bathe and shampeo my hair, if necessary. I further agree, should I smoke, I will tender my resignation immediately."

been to get an interview for a job, the applicant must tell me that on she hasn't smoked in six months," Wandra says. "We had a justemed-and-wife team his once as managers, and they were not crusaders. It didn't work out she had smoked just before they came wandra paused and said, in a west "It just didn't work out."

The mn was a bit of a currently when it was being built and during the first year of operation. Senders have mnounced that his motivation in sensing it was that he meaned the loss of several people "near and dear to me," killed, he said, by smoking. "It kins 1,000 Americans way," he said of tobacco smokes

Sail, he got nuisance phone salls from scople telling him he was "dumb!" to open a noasmoker's inn Then there was the subcontractor at the construction site who on learning what the mote was all about, said, "Oh yeah? "Il yeah? "He did, and he we the smoke in salls and he we have smoken and he was all he we have smoken and he was

Aniloing time took longer than expected, according to Wandra Hodges because of Sanders' insistence that, once the doors and windows were in place, no worker could sinck on the job. "We told them they had to leave their cigarettes in the car or at home," she explained.

"Several times when deliverymen showed up they had cigarettes in their mouths. We had to stop that. Then one guy shows up with three icing cigarettes in his mouth. But they weren't lit.

"At certain times of the month, people drive up here and empty their ashtrays onto our driveway and then hurry away. Once a lady came in here smoking, and I stopped her at the door, looked her in the eye and said, 'You can't bring that cigarette in here!' She went out to the gutter and stomped it out."

But Sanders and Wandra have their outgoing sides, too, and it is expressed in their practice of giving free donuts to people who work for the airlines and rental agencies in hopes they will refer nonsmokers to the inn. The monthly donut bill is \$1,400, and Sanders regards it as a good investment.

The Non-Smokers Inn managed to turn a profit in its first year. The average occupancy rate of Dallas hotels, Wandra says, runs between 60 and 68 percent. According to Wandra, the Non-Smokers Inn is running 74 percent, and the number is rising.

She and Sanders will not rent rooms to smokers. They love to mouth and print these antitobacco aphorisms:

- 1. Smoking is colorful—black lungs, yellow teeth.
- 2. Kissing someone who smokes is like licking out of a dirty old ashtray.
 - 3. Cancer cures smoking.

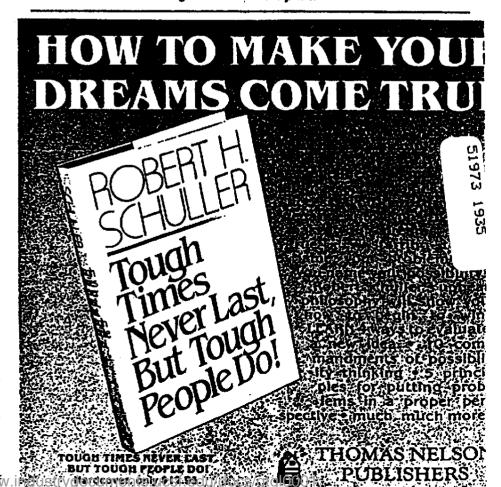
Wandra admits there are moments at the inn, however, when it's tough to make a decision. "Two men came here chewing cigars," she said. "We let them in as guests, and I am sure they didn't smoke. But they sure chewed a lot."

BEST

continued next issue

Next issue: How to get a bonus from your boss for not smoking. Your rights when coworkers exhale smoke in your work area. How workers in one industry have been able to reduce their cancer risk by 92 times. And how to breathe easily even while your favorite team is losing.

Corporations have traditionally been more worried about running their businesses smoothly than they have been about getting involved in controversial social issues. But more and more companies have seen the light when it comes to lighting up. In the next issue, Nick Thimmesch takes a look at the economics of smoking: What's being done in the workplace to clean up the mess that smoking causes, and who's behind the push.



http://leg.cy.library.ucsf.edu/tid/zrq07a00/pdf/

NO-SMOKING SIGNALS FROM THE WORKPLACE

So concerned are some corporate managers about the harmful effects of smoking that "if the President of the United States came in and lit up, he'd be expelled immediately."

by Nick Thimmesch

The torically, most but ness people are satisfied if their firms run relatively free of trouble, turn a profil and seem headed to successful future. Few pioneer in contactorisial actions such being ahead of the pack on the items of

ale some lively exceptions.

The Proposition of Market States came is and lit as " says Oscar Austad, president of his own company in Sloux Falls; South Market, "we would expel him im-

equal opportunity in employment

and nonsmoker's rights here

mediately."

Patt II

phase customers, employees or visitors—smokes on his premises or grounds. He claims his employees,

most of whom don't smoke, are grateful. Customers, he says, offer few complaints and many compliments.

But most managers aren't owners, and even if they are, they are not as ardent as Austad. So companies have been careful in formulating rules for smoking in the workplace.

Mobil Oil got so many requests from its employees in the New York headquarters that it designated a major portion of its cafeteria as nonsmoking. The Bank of California permits employees to place "No Smoking" signs at their desks. Sears Roebuck & Co. divided its conference rooms in New York City for smokers and nonsmokers. New England Mutual Life Insurance Co. did the same and also removed

cigarette vending machines from its Boston headquarters.

Xerox Corporation encourages employees in its Stamford, Connecticut, offices to "take action" against smoking on the job, and provides its employees with signs reading either "Thank You For Not Smoking" or "Positively No Smoking."

Newspaper people are often depicted in films and on television as being heavy smokers. But the "Front Page" atmosphere is a thing of the past at many papers these days. The Wall Street Journal divides its New York copy desk into smoking and nonsmoking areas. The Chicago Tribune, though having no written rule on smoking, has designated many areas in its building as "no smoking."

Companies involved in the processing and handling of asbestos, such as Johns-Manville Corp. and Nicolet Industries, have taken extra precautions on smoking since medical research shows that asbestos workers run a 92-times-greater risk of getting lung cancer if they smoke. Johns-Manville won't hire smokers for its ashestos mines or in plants processing asbestos. Smoking in such mines and plants is prohibited, even in cafeterias and parking lots. Still, unions have protested these policies, claiming that the company should provide smoking areas for its

Many firms offer incentives to employees to get them to quit smoking. Some pay bonuses, others finance courses to break the habit and some make straight cash payments to workers who stop. Merle Norman Cosmetics of Los Angeles, for ex-

employees.



By putting 12 percent of its fleet off-limits to smokers, Thrifty-Rent-A-Car (see part I) has not only won the praise of many a nonsmoker but may have inspired two other big car-rental companies to become copycats.

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ample, forbids its employees to smoke and gives each one \$10 every 90 days as a thank-you.

Some crusaders against smoking are now suing to prohibit smoking in sports areas and domed stadiums. But realists in the movement admit that a total prohibition on smoking in these caverns makes the crowd laugh whenever such an announcement is made. It is more practical to e tablish smoking and nonsmoking and single these huge facilities.

Can you imagine a dancehall or disco that bans smoking? Well, there are many, and one that ASH

likes to point to is the Fresh Boogie Box dancehall and pocial club for non-smokers in Addison, Texas.

Smokers in Addison, Texas.

prestigious habit, and prestigious habit, and prestigious habit, and prestigious habit, and prestigious habit, and sports helpes, with cigarettes in helpes, with cigarettes in prestigious habit, and sports helpes, with cigarettes are as pilloried as "demon rum" once was

or. William C. Weis, asness administration at Setric University, loves to push his argument by asking entrepreneurs:

Would you like to shave personnel costs by 20 personnel costs by 20 personnel, ansurance premiums by 30 percent, maintenance characteristics by 50 percent, furnitus replacement by 10 percent and disability

payments by 75 percent?" The answer, of course, says Dr. Well a 79-cent sign reading: "NO SMOKING." He argues that the additional annual cost to a firm emplopses smokers and allowing smoking in the workplace is \$4,611 in 1981 dellars. Dow Chimical Co. in 1974 estimated that its total excess costs in wages for smoking employees versus nonsmokers for its Midland, Michigan, division alone was \$657,146 per year. Cigarette smokers missed 5.5 more days a year than their nonsmoking colleagues, Dow reported.

Environmental Improvement Associates reports that the national average for smoking employees shows they lose 17 percent more work days because of smoking-related illnesses, can be up to 10 percent less efficient than nonsmoking

employees, become ill 3.5 times more often on the job than non-smokers and have twice as many accidents.

The economic case goes on and on: Air conditioning requirements are six times greater for smoked-up rooms; a smokefree building can be constructed for 30 percent less money; and housekeeping costs for buildings where smoking is permitted are substantially higher than they are in no-smoking buildings.

The health costs are more difficult to compute, but it has now been clearly established that people



"The neighbors won't get out of our pool, Spot—you know the plan...."

breathing somebody else's smoke suffer health damage, and this fact has formed the telling argument in an increasing number of lawsuits. Linda Batchelor, an employee of Fresno County, California, for ten years, won a workmen's compensation suit for \$17,500 after she argued that her employers ignored her pleas that her respiratory problems were being caused by nearby smokers.

The United States, more than any country in the world, is a nation where petitioners and activists can bring about great changes in the law and in society. Businessmen were reminded of this verity in the turbulent years of the '60s and '70s, when public interest groups of the Nader variety sprang up everywhere to challenge the status quo. The lesson

was often painful.

973

No activist shook the tobacco it dustry, rattling vast areas of bus ness in the process, more than Joh F. Banzhaf shook it. He founde ASH in March 1968, when he we only 27. The year before, Banzha had won fame when he single-hancedly and successfully petitioned th Federal Communications Commission to require broadcasters to devote substantial time to nonsmoking messages (commercials).

Since then, ASH has led the figh against the jeopardies of smoking on a score of fronts and helper

> bring about large smokefree areas in American life. One of the first was that rather confining space of an airliner that is known as the passenger section.

"In 1971, I phoned Edward E. Carlson, president of United Airlines," Banzhaf recalls, "and told him we had a sick guy, quite sensitive to smoke, who had to fly from Chicago to Florida, so what should we do?

"I didn't say ASH would go to court, but he understood. He took my suggestion of segregating the smokers and was so pleased with the results that he made it general policy."

Banzhaf and other activists hammered away at federal regulatory agencies and the airlines, causing them to shrink the smoking section to generally less

than 30 percent of seats, to always guarantee passengers seats in nonsmoking and to virtually eliminate the problem of cigar and pipe smoking.

ASH's most recent victory was a ruling that the Civil Aeronautics Board must not rescind regulations providing that: Ventilation systems must be fully functioning when smoking is permitted; passengers in "no smoking" must not be "unreasonably burdened" by drifting smoke; pipe and cigar smokers must be "specially segregated."

"Now we're going after planes with fewer than 30 seats that are exempted," Banzhaf says. "We'd also like to ban all smoking on short flights."

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Operators of bus lines and passenger trains didn't roll over and play dead for ASH either, but today only the rear 30 percent of buses are for smokers, and Amtrak has clearly delineated smoking and nonsmoking cars.

"Nearly three-quarters of the states have now restricted smoking in public facilities," says Banzhaf, "and the federal government has extensive guidelines for its government-owned buildings."

'We're still having a major problem with smoking in hospitals, of all places. George Washington University right here in the District

violating local laws. Smole ing can cause fires in bosnitals, especially when a groggy patient drops a eigarette on a bed. But if a permits a patient to make, it's hard to make him stop."

Banzhaf says that husiness has really turidound on the smoking
quesion, the real section
that the majority, no
smoking public can be offended by employee smoke
that smoking in the
early ay workplace costsbig money.
The government ruse

there is no discrimination violation when an employer says he won't hire a small er, and that's a plus," says Banzhaf. "Employers do

diability payments to workers who can see that their health has been damaged from smoke."

the claims ASH is not against sninkers, only against what they can do to nonsmokers. "The right of a nonsmoker to breathe clean air taker precedence," he says. Banzhaf has interdicted smokers on elevators and has even taken one to court and won his case.

"The future for smokers is in smoking lounges, private offices and the great outdoors," Banzhaf says. "If a smoker wants to close his office door, run around that office, sleep on the floor or smoke there, that's his or her business.

"The attitude toward smoking has really changed since we started ASH. Last year, we had the lowest per capita cigarette consumption since 1957. Total cigarette consumption has dipped for several years now. We're getting many more people to quit.

"Once, smoking made you socially acceptable. It was done everywhere; it was in every business and workplace. Now, you must go to the back of the bus to smoke. That's how much the tolerance of smoking has changed."

Proposals to Curb Employee Smoking

1. Smoking should be prohibited in certain small, enclosed



"Nonsense, Marianne! I would have remembered if you had told me we were going to have a baby!"

areas, in all medical-care facilities and in all meeting rooms at the workplace.

- 2. No-smoking areas should be established on the basis of actual usage in dining and recreational facilities at the workplace. Such areas should also be established in all offices or work areas where ten or more employees work, provided that where this would not be feasible, the employer need only make reasonable efforts in order to accommodate the various rights and preferences of the nonsmokers and those of the smokers alike.
- 3. In all other offices or work areas, nonsmokers should be assigned to nonsmoking offices or areas. Smokers should be assigned to smoking offices or areas, provided that where this would not be

feasible, the employer need on: make reasonable efforts to accorr modate the rights and preferences of the nonsmokers and those of the smokers alike.

- 4. The employer should mak every reasonable attempt to provid a workplace free of exposure to tobacco smoke to any worker with; serious susceptibility to such smoke A physician can make a determination whether an employee has such; susceptibility.
- 5. The employer should monitor the workplace for excessive concentrations of tobacco smoke and take

Ġ

appropriate remedial action where necessary.

- 6. The employer should plan future workplaces so that nonsmokers will not have to involuntarily inhale tobacco smoke during their workday.
- 7. The employer should improve ventilation where it is necessary to reduce any concentration of tobacco smoke.
- 8. The employer should, by signs and otherwise, adequately inform workers of the prohibitions and restrictions that are related to smoking in the workplace, and should take reasonable steps to enforce the regulations.
- Individual workers should have the right to post or display signs at their desks or work areas indicating their sensitivity to tobac-

co smoke. Workers should politely request that other persons refrain from smoking in their immediate work vicinity.

- 10. Workers should have the right, at their own expense and within reason, to monitor concentrations of toxic agents often found in tobacco smoke in their daily work areas.
- 11. Whenever representatives of OSHA or the individual employer monitors the work environment to ascertain concentrations of carbon monoxide or other toxic agents, all air samples taken should be made under the worst-case conditions, with every employee who customarily smokes a tobacco product in that particular area burning or smoking such product for the complete duration of the test. X

Mouth and throat cancer needn't be fatal—yet the disease kills thousands each year. The symptoms are obvious and easy to check. Read about them. Remember them. They may mean life or death to you or to someone you love

THIS article will save many lives—certainly hundreds and possibly thousands. I feel sure with the first two reasons: first, the information I am roing to discuss is bopeful information about a killst disable, cancer of the mouth and disable. Second, very few people know the was I still presents the magazine will make them known to millions. Of those millions, some would otherwise die because de gnorance.

Moss with the men. Indeed, this confident miled an article for men—except that every woman who has a stalk into male also needs to know the facts, for an except sake. Cencer of the mouth and throat occurs about four times as after and throat occurs about four times as after in men as in women—why, nobody in week.

in men as in women—why, nobody well with Writing this article was not my idea (I am Writing this article was not my idea (I am not an authority on cancer); it was not make gested to me by an editor: no doctor came to me with sheating estion. The seal author is a friend of mine who has been a victim of mouth and afrost cancer last more than ten years. He is a brave and brilliant man. He has endured so man plantalous this seal might not believe the total number if it were to mention in He said (or, rather between for he mand speak) that if he has seek known with the knows now, he could have saved himself sears of unbelievable miserase. saved himself years of unbelievable misers and the can certainly save myrios of

others from such misery, by telling them.
"You're a writer!" be scribbled on ble
writing its "Why don't you tell them?"
There are also subsidiary authors of this
article—other friends similarly affiliated among
them a suiter tycoon who has no larrynx any more, and former friends who have died from the diction of the country store in Connecticut and a writer about whom all the world knows. Busine Runyon.

The petholoal authority for the facts I am presenting is, naturally, a doctor, a world-famous expert on the facts I am present on the country in the facts I am present on the facts I

peri or or seasth and throat cancer. Attnough he gladly soured out his knowledge for me, gave me access is the voluminous technical writings which have made him famous, and put at my disposal information from one of the country's leading cancer hosbitals he said, "Keep my name out of it."

I are all and long, but I was unable to change his mind. So I am responsible for the presentation but my friend the surears in the main

entation, but my friend the surgeon is the main source of the material in this article. And that material consists principally of a single bit of knowledge, which can be set down in two sentences:

First: most cancers of the mouth and throat, if recognized soon enough, can be removed surgically, or otherwise cured (by radiation, for example) with relatively little distress to the patient.

Second: most such cancers, though they soon become very dangerous, give warning of their presence before the dangerous stage is reached.

To save your own life from mouth or throat cancer, or the life-of a man who is your best friend, or the life of the man you love, all you may need to know is how to recognize the early symptoms and what to do. In a crowd the size of an average movie audience, you might not find a single layman who had this knowledge.

Yet the early symptoms are generally definite. The first is a sore anywhere in the mouth or the

throat, or on the toughs, gums or cheeks, or on the lips. If it is a cancer sore, it will usuallyalways-be harder or tougher or thicker-feeling

than the tissues around it.

All right. You have a sore in your mouth. Do you rush instantly to the doctor?

Not yet—unless the sore is big and nasty when

you find it. If it is, strop everything and go to your physician at once. But if the sore is small somewhat smaller than a dime-walt a week. After a week, if the sore is still present, you stop waiting and hustle to the doctor's office. The chances are it's not cancer; even the longer-lasting



Author-philosopher Philip Wylis, who is best known for his pene-trating sociological analyses of American culture (Concretion of Vipers, Opus 21), originally inded to become a dector. He has written essays, articles and books on a number of scientific

and medical subjects, but never before about career. He turned his attention to mouth and throat cancer at the urging of a friend, for reasons he explains in the accompanying piece

sores aren't usually cancerous. But if it is cancer, you've used up all your safe waiting time. From now on, every month, every week, every day you put off diagnosis might cost you an eye, part of your nose or jaw, part of your throat-or your life.

A second important symptom is a lump in the neck. It can be a soft lump or a hard one, a little lump the size of a pea or a grain of rice, or fairly large. It can be painful enough so that the ache leads to its discovery, or it can be merely tender, in which case the pressure of your collar or an accidental touch may bring it to your notice. And it may not burt at all.

The lump may be a swollen lymph node. Mil-lions of people have swollen nodes which do not come from cancer; nevertheless, if you have a lump in your neck-or a number of lumps, of whatever size or consistency-go to your doctor. As with the mouth sore, the chances are the lump is caused by something harmless, but you cannot afford to run the risk. In fact, the risk is probably greater with a lump than with a mouth sore.

Why? Because if the lump in your neck is caused by cancer, it nearly always means you have a cancer -and have had it quite a while. In many areas of the nose, mouth and throat, cancers can start up unseen and unfelt. They usually don't hurt at first, or bleed or drain, either. The earliest evidence of their presence, all too frequently, is that lump in the neck. The lump sometimes means that a cancer in an unsuspected area (silent areas, the doctors call them) has started to spread. The neck jump is its offspring—a secondary cancer or, as it is technically called, a metastasis.

Another early cancer symptom is hoarseness. People get hourse from colds, from yelling too loud at a ball game, because they smoke too much, or because of some other temporary irritation. That hourseness usually goes away when the irritation is removed. But a person who is hourse for as long as two weeks without going to his doctor is taking crazy chances

Hoarseness that doesn't go away is the most common first symptom of cancer of the throat, the laryax and, especially, the vocal cords. If it's cancer, getting to the doctor on time may mean the difference between a fairly simple treatment that leaves you intact and a difficult operation that can have your without would care the can have you without would care the can have you without would care the can have you without would care the care that the care the c

that can leave you without vocal cords and obliges you to learn a new way of talking. It -as always, in cancer-mean the difference between a ripe old age and a premature grave.

Those are the common symptoms: a sore anywhere in the mouth, nasal passages or the throat, a lump in the neck and hoarseness. Fortunately, they're noticeable symptoms. Certain cancers elsewhere in the body cannot be detected by the victim because they produce no marked symptoms until they are greatly developed. Cancers of the mouth and throat nearly always ring a warning bell

There are, to be sure, certain other, rarer symptoms of mouth and throat cancers. But they are even more noticeable. One of them

is continued or repeated bleeding from the nose, especially in middle-aged people. A notice-able difference in size in the two sides of the face is another highly noticeable symptom, which may indicate sinus cancer; any lasting swelling should be investigated by a doctor.

Besides the information about symptoms, in my talks with many medical men and scientific researchers I gathered certain other impressions and opinions about cancer which seem important. But since these impressions and opinions invade the field of medical ethics and enter areas of incom-plete study, the rest of this article is written on my own responsibility, entirely,

It involves various questions that concerned me. What about smoking, for example; does smoking cause cancer? What about deptists? If I have a sore on my gum, why shouldn't I go to my dentist rather than my physician? And how do I know my doctor is trustworthy and can diagnose cancer even If I have it? Finally, a sorry, time-dishonored question; even if I do have cancer, isn't cancer so awful that I'd be happier just to ignore it so long as I feel okay-and face it only when my affliction compels me to?

Let's begin with smoking. Nobody has proved that eigerette smoking causes cancer. There is some evidence that smoking increases the surcep some evidence that smoking increases the Intertibility to cancer of the mouth, throat and lump
It isn't necessarily the tar in tobacco smoke. Ap
parently, the plain irrisation of smoke itself—ho
smoke, cold smoke, filtered smoke, or what-have
you—may increase susceptibility. The key ques
tion, of course, is: "How much?"

The answer is not known. It's true that the grea majority of all those who develop mouth, throa and lung cancers either smoke or have smoked

Coller's for January 24, 195:

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By PHILIP WYLIE

Save Your Life

but, on the other hand, more than three quarters of all American men smoke, or have smoked. It is not possible at present to make a comparative table of the hazird. Furthermore, quite a few men who have never smallers at all develop these canwho have never amaiest at all develop these can-cers. And, as we extend the average length of life in this country, we increase the likelihood of the degenerative diseases—and cancer is one such

Finally, it is asses that all forms of cancer together, including those aposidered here, rank second as a cause of the first the United States. But, even if smoking increases the risk of mouth, throat and lung cancer the second most common cause one form of the second most common cause

I smoke heavily and have done so for 30 years.

It may be that I shall findly develop cancer in the mouth or throat on lung because of smoking. But smoking it so much wait of me and my ways that all the tables I seemend all the dire words I heard did not make me stop.

Moreover, I suspect that the recent findings coi cerning the relationship of smoking and cancel have done as much barm, by causing exaggerated anxieties, fears and provides, as good.

Taking a Sight Statistics This to driving a car a shade too fast. As I srow older I drive more slowly and I don't draw there and and I don't more slowly and I don't draw there are many other acts. I do as the frain from doing for the sake of health and safety. There's still one risk do take—a slight as thistically: I smoke. But don't worry about it, partly because if I do get a cancer, I now have a clear idea of its early signs, and the steps to take

The next question seems even more important to me. It is quite naural far a person with a sore important in the second of the se

and some specialize antists are experts.

However, if you have any of the symptoms of mouth cancer, so was physician. That's where a competent dentist will send you anyhow.

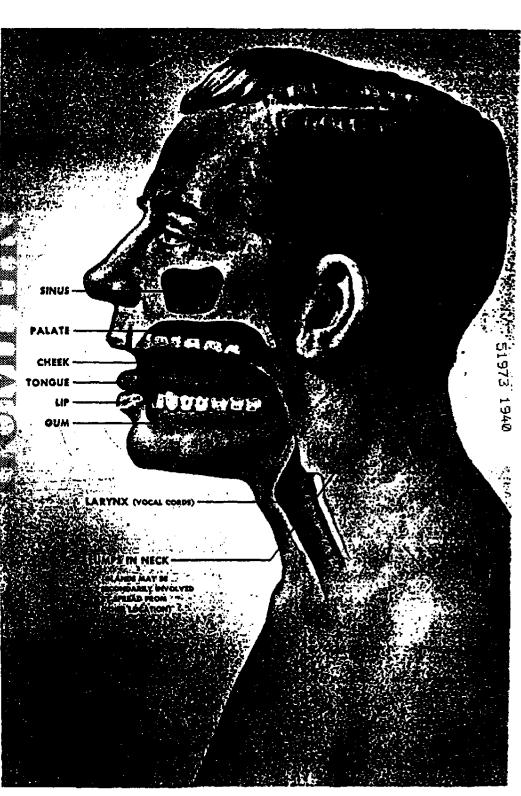
I have almost an housed the next question, which is: How can you be sure your physician will proposely discovered. erly diagnose your erle? How can you be sure he is competent?

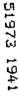
Here's what I is a average physician or

surgeon is capable of making a cancer diagnosis, and you should trust him. If you are uncertain about where to get a good doctor, telephone the local unit of the American Cancer Society, or the local hospital (or even the intern on duty in the emergency room of a good hospital) and ask for the names of able physicians and surgeons. You'll be told about several of the top medical men

in your community.
It is, of course, possible that the finest physician may miss a diagnosis of mouth or throat cancer. Cancers are sometimes tricky; doctors are human beings; the best human efforts sometimes fail. It is

A sore on palate, check, tongue, lip or gum, frequent nosebleed, persistent hoarseness, a lump on the neck-all are possible (but not sure) cancer symptoms. Take them to a doctor







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also possible that your doctor, especially if he knows you're a worrier (and who doesn't suffer at times from imaginary diseases?), may be pressed for time and brush aside your report of cancer symptoms. He shouldn't—but he might. In such a case, remember that it's your health, your body and if you have cancer, your cancer. Don't accept a brush-off if your symptoms continue. Go back again, Walt Insist. Demand.

As this article has tried to make plain, the responsibility for saving yourself a welter of pain and perhaps an untimely death from cancer rests first on you. You—not the doctors—are likely to note the earliest symptoms.

note the earliest symptoms.

What you do then, and what you lesist on having done, may determine your future prospects.

And what are your future prospects?

Dissurdadefrom Suicide Plan

The other day, a powerhouse business assecutive whizzed through my city. A year a jo, be finally took a long-instine, arishbora hoarseness to his doctor. The bir months," he reported. His physician fold him not only that he had describe the larynx, but that his larynx world have to be removed—and with the larynx world have to be removed—and with the larynx world have to be removed—and with the larynx world have to be removed—and with the larynx mechanical aid. The man was applied—more than appalled. He would up his affairs rapidly and arranges limited, to commit suicide. But his doctor found out his scheme and, with the largeon, persuaded the man that suicide was cowardly and allly.

The stem had his operation. Afterward he learned to use a speaking aid. What is ushed through my city, tanned and bealthy, he was on his way abroad. Mostart a new brench of his world wide business. "I thought death

was the only way out of the mess," he grinned. "But all that happened was, my voice changed. I have to plug myself in on an electric circuit to talk. Small matter?"

That man came late to the doctors. Yet I suspect he is as happy as he ever was. Certainly, the modification of his life has in no sense defeated him. On the contrary; the great victory he gained over death—and over himself—made him in some ways a better man than ever. He is more understanding, more compassionate, more awars of the excitement and the magnificence of life.

citement and the magnificence of life. He had a hard time for a while. But for those who act swiftly after discovering symptoms of a cancer starting in the mouth, nose or throat, the story will be different: a skillful operation; one so three weeks in the hospital. And then, no more symptoms, no more cancer.

"Even the people who think they know what to do," says one authority, "and who think they've acted promptly, usually bring us cancers twice as large as they ought to be. We ought to get them in helf the time; then the patient's chances of having no further trouble, no metastases, no additional complications, no more surgery, would be not twice as good, but four times as good. Maybe even ten times!"

I can think of no better conclusion

I can think of no better conclusion to this article than some words acribbled by the friend who inspired this piece. I asked him how he felt when he first learned what ailed him 10 years

ago. He wrote:

"The diagnosis of cancer did not mean to me that I was condemned to death. It only meant a fight for the restoration of health. I felt in every fiber that the spirit of defeatism must

never be a part of one who has cancer."

That's the anonymous legacy of his suffering to the world; I'm proud to be able to pass it along.

Next Week's Fiction



THE GOOD LAND
By WILLIAM FULLER

A popular Collier's writer tells of a magnificent old man too mulebeaded to give, or ask for, love



A BACHELOR SURROUNDED

By WILLARD H. TEMPLE

One guy with a pack of ladies is. ' angry pursuit. Here is more, fun for Mr. Temple's many admirers



THE STINGY SKYSCRAPER

By HANNIBAL COOKS

That now-famous character, Dear George, the press agent, again makes hard work of child's play



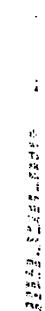
STOLEN PEARL Br JOHN KRUSE

The story of a pearl diver who steals from the sen a shell that can bring him riches—or death



"Being a secretary is easy. All you have to do is look like a girl, think "I'- " wan, and work like a dog"

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and two site acquitted all to satisfy a political boss who wasted \$40.000.00 of taxpayers' money in site, effort to settle a grudge against an eminently respectable citizen.



f you are "Dad" do not let your son see you reading "Fothers are Liars" in the MARCH

SCRIBNER'S

In this namber: "Escape to Yesterday"; Scott Fitzgerald's stunning new novel, "Tender Is the Night A Complete Biography of Lenin—The Russian Idol; Stull Chase, and others.

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THE MYSTERIOUS WORLD

3.5.1-14

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AOTICEUCIAM BESTHERIOS

President Coolidge made him commissioner. He was contesting President Roosevelt's ouster when he died.

* Charles R. Flint, \$4, "father of trusts," of a stroke, in Washington. Son of a Maine clipper-ship owner, he was a ship chandler before he started consolidating everything from steam-ship lines to chewing-gum companies. The newspapers gave him his nickname during the McKinley campaign when he defended trusts as combinations of "labor, brains, and money."

Birthday: Elihu Root, dean of America's elder statesmen, 89, Feb. 15. The former Secretary of State spent the day quietly in his New York apartment,

 Charles M. Schwab, chairman of the part of Bethiebem Steel Corp., 72.
 Feb. 17. He announced his retirement as president of the Whist Club, a post he held for twenty years.

a sime. Marcella Sembrich, coloratura soprano who sang at the opening of the Metropolitan Opera House in New Serk, 76, Feb. 18. Ill for several menths, she forsook her usual large reception.

liected: Owen D. Toung, by the uninimous vote of the New York Legislature, to membership on the State Board of Regents, supervisors of all educational institutions in the State.

He succeeds the late Chester E. Lord, the managing editor of The New York Sun.

Renmeted: Lt. Comdr. Charles E. Besendahl, survivor of the airship Shanandoah disaster and later Com-, smander of the Los Angeles and the Akron, to the rank of Commander. He is at present on fiest duty.

Frince George, youngest son of the King of England, to rank of Commander in the Royal Navy, He is now on a good-will tour of South Africa.

Hitchcock, of Nebraska who died in January, an estate of more than \$100,000. It consists largely of stock in his newspaper, The Omaha World-Herald. Ten-year control of the paper is vested in a board consisting of Mrs. Hitchcock and the paper's executives.

By Tod Stoan, jockey, who died in December, an estate valued at \$9,500 to his 10-year-old daughter. At the time of his death he was believed to be penniless.

Sick List: Gen. John J. Pershing, wartime commander of the American Army (cold): left Walter Reed Hospital for his home.

John D. Rockefeller, espitalist (grip): though feeble, he made a comfortable trip to Florida for a three months' stay.

Beatrice Lillie, actress (minor internal operation): convalescing in London.

Mme. Maria Jeritza, singer (cold): canceled appearance at Zionist beneat. Joe E. Brown, movie actor (lion

SCIENCE

TOBACCO: Research Clarifies

Han's Craving for Nicotine

Nicotine is named for Jean Nicot, the Frenchman who taught one of France's greatest Queens, Catherine de Medici, the fine art of carrying a cud of chewing tobacco in her plump cheek. Since then scientific men have been wondering to what they should attribute the joys of smoking, chewing, and "rubbing" tobacco.

In the Feb. 16 issue of Science, scholarly weekly digest of the American Association for the Advancement of Science, there is a new answer to the

old question.

Professor Howard W. Haggard and Leon A. Greenberg of Yale looked suspiciously at pyridine, a combustion product, but discarded it because it was also present in cornsilk and brown paper—smoking materials seldom used by composseurs.

Then they turned back to old Lady Nicotime and began to find sprightly new facts about her. Rosearchers had already found in animal experimentation that nicotime injections increase blood sugar. Haggard and Greenberg decided to work on human beings.

First they starved their subjects and then they stuffed them, meanwhile watching heart action, respiration, blood augar content before and after smoking. Then they began to pry into the small ductiess glands—the adrenals—that sit atop man's kidneys. It was there that they began to find interesting new facts.

Buch nicotine as got to these vital glands gave marked stimulation; and the adrenals in turn stimulated heart action. Blood sugar content shot up and bodily production of sugar increased. It is this combination of complex processes, they believe, that makes man like his after-funcheon cigarette and his after-dinner cigar almost as much as the meals themselves.

The Haggard-Greenberg experiments had an answer for another phenomenon noticed by all smokers—that a cigarette will altay hunger. Nicotine, in pepping up bodily production and consumption of sugar, produces a kind of synthetic inner meal.

MEDICINE: Chicago Hus Case.

Of a Rare Bleeding Disease;

Gertrude Siers, a stender, pretty Chicago telephone operator went to bed with a cold, in her South Carolina Avenue home, Feb. 5. Two days later her nose began to bleed. Towels, drenched in cold water, seemed to have no effect. After two days purple spots the size of half dollars showed on her body.

Then blood began to appear in her eyelids, ears, and mouth. Her physician examined her and recognized the disease as one so rare that it is selden mentioned in medical journals—through

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lessons from Andres de Segurola, piano lessons from Frances Minnerick, schools with a tutor in the studio, is nicknamed "Candy," likes to swim and ride. When she goes back to Hollywood she will live in a new house overlooking the Universal lot, with a hedroom walled in glass brick.

Banjo On My Knee (Twentieth Cen-(un-Fox) is, in a completely unpretentious fashion, a new kind of picture. It is a father by about a group of Mississippi islanders so isolated that they regard land folk as belonging to another race, hold to the seed to the control of the control to live in towns He would have created towns the same way He made rocks and trees are folk story elements are as



HELEN WESTLEY news, spits, scratch

authentically saturated with mood as though this were serious drama in a light with warmish music. What is most original about Banjo On I is that the tunes never separate the story from its error but are cued in so as to help the feeling. It also permits able Helen Westler who, as a stand-by of the New Westler wilo, as a stand-by or the York meatre Guild, was noted for her interprise of squalid roles, to reach a new low in his respect. A shabby pioneer in Green Grow the Lilacs, a harlot's mother with the control of the same of the control of the same of the control of the same of the control of the same of the control of the cont pears in Banjo On My Knee as a superannuated female river-rat, mewing & spitting, scratching at her naked, knobbled

Newt Holley (Walter Brennan) planned to serenade his son Ernie (Joel McCrea) and the latter's bride Pearl (Barbara Stanwyck) with St. Louis Blues on their wedding night. He felt the tune might be a kind of charm to bring him a grandbaby. Newt never got to play the tune that night because Ernie ran away after he had knocked a man into the river for trying to kiss the bride. When Ernie finally came home again he quarreled so with Pearl that she went to New Orleans with an itinerant photographer (Walter Catlett). Following her to a café in which she had taken refuge from the photographer. Newt made a hit her husband's second reappearance, was [about to clear for Chicago with a crooner, and Ernie was on the brink of a new wedding with a river gal (Katherine DeMille) when Newt nailed Pearl and Ernie in the barge-boat cabin. At last he found reason to strike up St. Louis Blues. Best tunes: With a Banjo On My Knee. There's Something in the Air. Best scene: Miss Stanwyck and the crooner sitting side by side. delivering monologs on their respective troubles, neither listening to the other. Best role: Buddy Ebsen as a river simple-

More Than a Secretary (Columbia) can best be diagnosed as a minor symptom of Columbia's current attack of whimsey. To test the curriculum of her business school, Carol Baldwin (Jean Arthur) takes a job as secretary to Fred Gilbert (George Brent), carrot-nibbling editor of a health magazine. When she falls in love with Gilbert. Carol decides to humanize him. He proves the efficacy of her humanizing by falling in love, not with her but with her dullest pupil, Maizie (Dorothea Kent). Getting this situation straightened out involves some of the most uneven comedy dialog of the season. Sample, when Maizie is angling for a job on Body & Brain: "I can hear my mother say take good care of your body, Maizie, because it's all you've got."

MEDICINE

Indian Tobacco v. Tobacco

A Spanish physician whom American Indians taught to smoke tobacco introduced that indigenous American plant to Europe in 1553. Sir Walter Raleigh, whom Sir Francis Drake taught to smoke a pipe in 1586. made smoking fashionable in Elizabethan England. Now the tobacco habit is so deeply fixed among mankind that U. S. consumers alone last year bought 134,607,741.257 cigarets, 4.763.-883.947 cigars, 95,873 tons of pipe to-bacco, 18.030 tons of snuff. That smoking is not injurious to the vast majority of smokers is attested by the microscopic size of the anti-tobacco movement and the infrequency with which reputable physicians inveigh against tobacco. But people who do smoke too much are doubly unfortunate because their "pleas-ant vice" is so extremely hard to break. Writing in the current Annals of Internal Medicine, Dr. John Lanahan Dorsey of Johns Hopkins has news for weak-willed oversmokers.

Dr. Dorsey considers a "real addict" a person who smokes so to so cigarets a day. Such a person, wishing to cut out smoking, may try nerve sedatives, hard candy, astringent lozenges, gumchewing, but still his task is hard, "After a man bas lit a cigar, cigaret or pipe after every meal for many years he will at first be at a loss what to do with his hands at such times. Likewise the confirmed cigaret smoker wants a eigaret between fin-

gers or lips when under any tension."

The Dorsey "cure" is simple. The smoker must cease abruptly and com-Plagus Weberumenteturs tradu/t WESTERN TRAVEL NEWS

New Western Travel Guide Published

HOW TO SEE THE WHOLE PA. CIFIC COAST-Southern Pacific Railroad (Free).

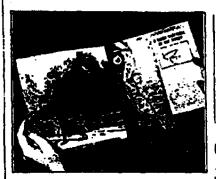
-So might a reviewer head his description of a new Southern Pacific booklet. just off the press.

No ordinary bit of travel literature is this. To get new pictures for it, Thotographers combed the Pacifi: Southern Pacific's Four Scenie the luminous depths of Carlsbar erns, the West Coast of Mexico more than a thousand pictures, F2 selected for the book. Two special were drawn.

Theme of the booklet: Go west on the Southern Pacific route and retur . . . ? different one. See the whole look Coast for little or no extra rail far.

TIME readers planning a trip weswinter or next summer will find to See the Whole Pucific Coast a va! aid. For a free copy, write O. P. 1: lett, Dept. Ti-123, 310 So. Mic. -Boulevard, Chicago.

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New Booklet From more than a thousand pictures . . .

SUN SPOTS

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EHICAGO-MINNEAPOLIS ST. PAUL: 4 trips daily design as a series of the series o way. Roundurip fue \$30. Limit Chirago 6:45 AM (or 7:05 AM from Curtiss: Reynolds Air-borrear North Shore), & AM, 1:15 PM, 9:00 PM. Leve Twin Cities 8:35 AM, 1:15 PM, 6:20 PM, 9:05 PM. Flying time: about 214 hours.

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WHEN your travels take you west of Chicago, you'll want to know certain facts about Northwest Airlines. For this is the swiftest, shortest, least expensive way to reach the Pacific Northwest.

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eighth grain of lobeline. This is a drug which smells, tastes and affects the human system almost exactly as nicotine does. Nicotine comes from the leaves of any tobacco plant (Nicotiana), lobeline from the blue flower of the Indian tobacco plant (Lobelia inflata), a common U. S. weed which Indians used to smoke with true tobacco leaves. Lobeline, however, is not habit-forming as is nicotine. Dr. Dorsey has never found it necessary for a patient to take more than 18 doses of lobeline in any 24 hours. Usually three or four capsules a day have sufficed. "For a day or two there may be some nausea, a metallic taste, and an uncertain feeling of malaise, but no more unpleasant symptoms."

After an habitual smoker stops, says Dr. Dorsey, his senses of smell and taste become acute. Appetite shows marked im-provement. "Nervous, undernourished provement. young women in particular are sometimes seen to undergo a renaissance. . . Likewise the tense, active, tired man often improves his state of health."

Sanger Milestone

Last week Mrs. Margaret Higgins Sanger Slee's tireless 31-year campaign to make birth control legitimate in the U. S. passed another successful milestone. Three years ago Mrs. Sanger's good Japanese friend, Baroness Shizue Ishimoto, sent Mrs. Sanger's good Manhattan friend, Dr. Hannah Mayer Stone, 120 rubber pes-saries. Dr. Stone intended to try the devices on 120 women clients of the Manhattan Birth Control Bureau, first and busiest of aby similar centres now disseminating information and supplies in 42 states. U. S. customs officials promptly confiscated the pessaries under the Tariff Act of 1930. That law is the result of a Federal statute which the late gorilla-like prude, Anthony Comstock (1844-1915), rammed down Congress' throat in 1873-These statutes lump contraceptives with abortifacients, smutty writings and lewd picture postcards as "obscene," and forbid anyone to import, mail or ship them across state boundaries.

Last January Federal Judge Grover M. Moscowitz of Brooklyn ordered the customs officials to give Dr. Stone her pessaries on the grounds that contraceptives might save the life and health of women, that therefore police officers who prevented the use of contraceptives interfered with the prerogatives of physicians. The decision practically canceled the whole series of "Comstock laws." Reluctant to yield to reversal of a 63-year-old U. S. probibition, Government lawyers appealed to the U. S. Circuit Court of Appeals, sitting in Manhattan, who last week upheld the Moscowitz decision, enabled Mrs. Sanger to crow: "Contraceptive material may be lawfully admitted into this country and disseminated, if intended for legitimate use."

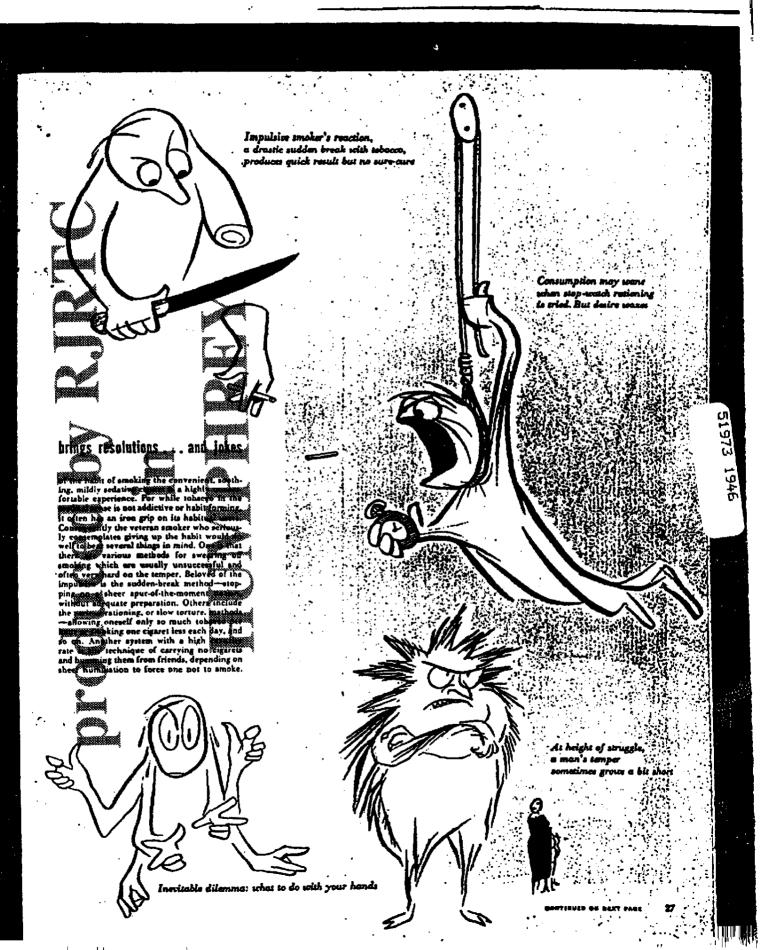
"Not relaxed was Government disapproval of smutty books and pictures. Last week a jury in Judge Moscowitu's court found Mr. & Mr., Samuel Roth, operators of the Golden Hind Press, Black Hawk Press and Fifth Avanue Book Shop, gulity of distributing observe matter.

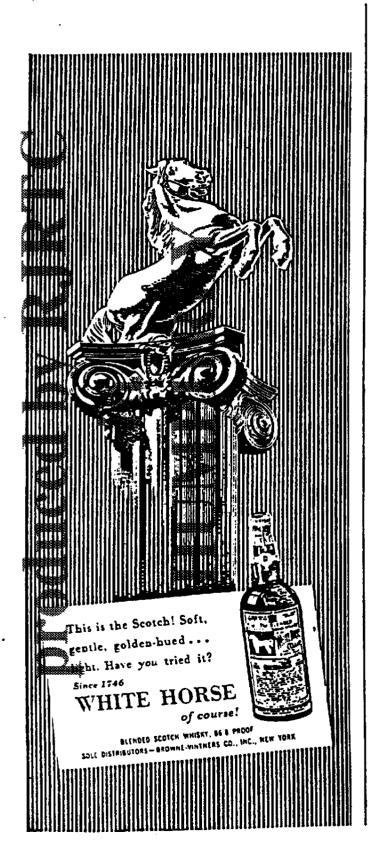
Last week Post Office inspectors sought to break up "observe correspondence clubs," some of which have thousands of members mailing the stocker fitchy pictures, crotic books.

NORTHWEST AIRLINES

The short, fast low cost route Schwer CHICAGO . ST PAUL . MINNEAPOLIS . SPOKANE . STAFFLE







Topic A continues

The prospective nonsmoker will also do well to remember that, due to tobacco's constrictive effect on smaller blood versels, stopping suddenly releases a brake that usually has been slowing his physiological processes for a long time. Results can be brief but spectacular. Often there is a temperary nervousness combined with a more permanent feeling of unaccustomed energy. This is a local problem. Not so lucalized it his temper which often makes itself felt on all around him, especially his wife and children, the latter of whom especially are likely to comment audibly on the conversion of daddy into a typical Western movie Bed Guy, complete with whisty bottle and shot glass.

movie Bed Guy, complete with whishy bottle and shot glass.

After enduring his temper for one morning, wives have been known to beg a husband to start smoking. When the late famed propagatelist George Croel swore off tobacto, his wife is said to have thrust a lighted eigeret between his lips with the pathetic cry, "Smoke, dammit, amoke!" In 1949 one Margaret Allen, asked by the English police why ohe had murdered her good friend Nancy Chadwich, had a ready and not successorable reply, "I was tritable. It would mever have happened if I had had a smoke."

Although a national wave of instabilities.

Although a national wave of irritability may be in the offing as a result of the Hammond-Horn report, the nation last week reacted with originality and even humor. A Seattle resident appealed to ductors to develop a truly safe cigaret, one composed entirely of filter. In Detroit cigaret-cadging hums made the news an excuse for a new approach: "Why don't you gimme the whole pack, Mac? You know what those things can do to you—and who cares what happens to me?" Nightelub Comedian Joe E. Lewis told his listeners that reading all the news stories about smaking made him so nervous that he had decided, finally and permanently, to give up reading.

The difficulties of giving up amoking have been so widely discussed.

The difficulties of giving up amoking have been so widely discussed, many smokers believe it is virtually impossible. In Londou a few year ago a want ad appeared: "Can anyone recommend a cure for smuking for a gentlemen being impoverished by the cost of tobacco? No suggestions calling for will power please." A testament to tobacco power over even a great intellect was left by Thomas Alva Edison. He was an outspoken enemy of the eigeret, but when his locked deal, was opened in 1947 on the hundrodth anniversary of his birth it was found to contain, besides the last notes and joinings of the Sage of Menlo Park, a

quantity of eigers and chewing tobacco.

Actually it is quite possible to give up smoking. Whoever wants to do so should first consider the possibility and advantages of stopping for a time, then wait for a propitious moment to start the abstentious campaign, such as the beginning of a vacation or otherwise relaxed period. During the early days he should use gum or mints as a substitute and otherwise pamper himself. He should also remember William James's famous rules about habit formation: start the new habit of with all possible momentum, never permit as exception to it until it is firmly fixed (in smoking that can be a long time), and deliberately invite temptation, by doing such things as lighting eigerets for others.

People who survive not only the discomfort of giving up smoking

People who survive not only the discomfort of giving up smoking but also the jokes about it can take heart. It isn't all secreticism. When the heavy smoker cures himself of the habit, he usually finds that he alcepy better, has attadier nerves, enjoys his food more since he to-to and smells it better and often seems to have more resistance to minor ailments. While he may put on a little weight for a time, and the desire to smuke may persist for months, the worst is over in a couple of weeks. After that he is free to admire his own marvelous self coursel and hore his amoking friends with accounts of how he did it.





Doomed to a Smokeless Agony

TISH ADDICTS ASP NOBLY THROUGH ANTITOBACCO EXPERIMENT

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NOV. 17,1958 LIFE

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SENT-HUZE S

Mirgues, secretary of a Belgian society known as the Errends of Purs Mr. Mor present were newspapermen and press photographers from Britain, Italy, the United States and New Zealand. The latter, depreced of months for ouls three or mar hours, were alreads a pireous sight -their mouths opening and clasing like those of new-landed field. their faces pale and indrawn, their ever telling amilessly in the sockets. But they were distracted from their own sufferings when Prese dent Johnston opened the session by sulfing no the patients to present their "case histories" as smokers,

Each gold much the same, mournful story. Each began to smoke while still in his teens, partly because it was Tortholden, partly hierause it seemed "grown up." Once started, some tried to "rebel" against a habithat struck them as a sort of "alaxery" and availabed up too much moons, But most of them went right on smokng just the same-with the result

at their slavish craving for solucce a combined with feelings of guilt. was the women patients who seemed to be the most to meeted by guilt. This come as no supplies the Wil-Vad Lester, a Logist psychiatrist ad Lester, a Log psychiatrist esent, who jestingly remaided the estioners that the were seemd from Eve and thus, the explained were susceptible to the men. Fre susceptible la men. he would be abstained were carful Miss Laura Chamber sees Laura Chamber Mind Tohation officer, said she had stunded shaking more than unce. "Subsect the service from of whether I should the service from the desperation I have taken a higaret so as to take my mind offshe, soblem and communication in Mysakking formers."

Mrs. Buer orney, 14 ergert Consumption boshamatar pyragi nb

discussing them, and smoking full the united one poor woman, "and then I get so fat." But Paradier how one would be none of that. First, lick your orge. "I shall be seen in would be note of that." To the first of them. "I pay the note of the seed of the great stighthaugh. Dr. Norman we would be another control to the control to another control to the control to another control to a control to another control room and cavited the sultributes to be down and be remotited. One by one-one camera machinities size of an item faces to ender endeavored on the minds on the medies laber to the control of mains enversared to like their minds on the medies laber to the minds of laber to make the minds of laber to minds

Finally a good-looking rest if no on the profound trance. "You will find that during the same are." I doctor told her mad his some.

"your craving for cigarets will be less. The labs case from Some emorthing her skirts and wearing an assiste look. Well, one one of five-that strot a bad average, said one of the doctors.

Raising their eyellows slightly, the newspaperiorn agreed policiels.

Then, the meeting over, they glam od at their watches and moved topofully toward the front door-shound which has Bude's obeers buts and smoke-filled matterface. But Mr. Little, no frame is the properties barred the way. I lear that the door of Garfield House is also type below at 11 pm., The intended, Too properties of perturbations of the would be noted to test you in again.

A sunned hornized aleaco granted to a what legal. The spell was broken only when Mrs. Bita Turney, it is embas bensewate and person-make ally descended the stars as a constant trainwally present two packs of engagests onto the obest of the obest specialist. Take these thousand she cross, "They will be safer we a your"

Shorts, as in a badis managed treneral procession, patients and prose traffed early to heal. What happened under cover of mate? Noted will over know exactly but certain points must be noted. The is that though the mant was lar from warm, corrum quests of Carteld Non-cological behaving like treshour heads. They doing their words we eads as it eight to despit constitute, that was collecting in 1970. rooms. Some could be seen bounds; bull sent of their wardows and a

maining possed thus for minutes on end, as if performing some ritual -apparently with ejecut matchalicae, a good many of which were found on the path below next morning. During the night the count of water was heard rushing messantly down the drains, as it evidence were horiz washed away. At all events it was a much shaken company that descended meet morning to hear President Johnston make the tire major address of the session.

The president, a grant apastle with a medical degree, best reminded

the company that the battle against tobacco to both anoroni and house, able. He quoted England's hist great nonemoker, King lames I, who, in a Counterblast so Tobacco (1604), described amoking as "4 custom hath-some to the eye, hateful to the more. harmful to the brain, dangerous to the lungs. . . "It was king larnes who executed Sir Walter Raleigh, the man who popularized tobucco in this land. "It is fitting," said the prodent with a hearty chuckle. That Ba-leigh met bie death upon the scalled?

Bianching at this assault on a revered national here, the more ners, ous members of the authorise reactively instinctively into pueses and pockers for a smoke, recalled obsorping their surroundings, and began to suck ea-gerly on large vellow mints, which were being passed around in a glass dish.

Respiration quickened, the stench of peppermint tilled the room and the presidential distribe communed. Timbacco is a drug," he said, but it is never so represented. The drugged, poisoned addied lives in a state of m-termittent intoxication.

The president was followed by the kindly chest specialist. Dr. Norman MacDonald. He won the sympaths of every starved lung present by conceding the many perpleximes regarding the relationship between amoking and lung cancer. "We don't know what factor in the signret to get rid of, or how to get rid of it. We cannot

explain why there is no difference, in the aftereffects, between those who inhale and those who do not." Then he turned to "facts" "Ose person in Bestam dies every half-hour" of lung-cancer. Four fifths of these deaths, he added baidly, though there are no statistics to hear him out, are "directly related to sninking." To denometrate his points Dr. MacDonald threw lantern slides upon the wall showing agod people. doing of lung cancer, including a stout gentleman of advanced age who put away seven hundredweight of pipe tobacco in 54 years. Emaily Dr. MacDonald produced some flat, square bottles of alcohol containing cancerous lungs. These passed from hand to hand with mairs a shudger, followed once more by the dish of yellow peppermints.



SUBSTITUTE FOR SMOKING, dish of minus is passed around by suggety's secretary, Rev. Hubert Little, the weekend's insurator,

Adults restraining their howls

TOW it was the turn of the psychiatrist, Pr. Lester, A joint from I have be summed up eighted smoking in purely broading on at beart firstician-sterns. Tense infants, he said, let out a howl and reach by their mothers, breadts. Tense adults re-train their hoods to reach and to marrie. The man who smoke 23 regards a day is giving horoself 25 broom node. "Smoking is thus "a manifestation of an orion constroner hand, and the perfect solution to it would be the pearl analyze and all smokers. As the is impractical some less dangers sides note for the breast than the enjaren must be round some offito rm of "destensioning" in an ever telever world.

In providing channel in to say he had heart that smokers he a consequence of many yar acculouse as more molecule, adding regrete our that there is an inher- of the Society of Non-Smokers are allowed D off thought company to the troutable companies.

The Looper wind that emokers "go erack" of they are not poor as strong M., lattle said that God has given man to e will

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On the surface, Joan and her husband Bob seemed compatible. But biologically, they were not. Bob's blood was Rh-positive. Joan's negativemeaning that she lacked the Rh factor" present in most blood. The difference had fie adverse effect on their first child, an Rh-positive boy born in a Louisville hospital two years ago. But their second been last year, suffered from a con-dition called erythroblasiosis fetalis, destroyed his red blood cells, leaving him severely anemic with an accumulation of toxic substances in his this edge.

... The case is not unusual. Twelve pernt offall American marriages pair an Rh sepative woman with ah Rh. poss-m. Of the 3.3 million designs that take place in the U.S. each year. positive baby to an Rh-negatives methors, and of these babies, at least the beafflicted with some degree of the disease. The irony is that his bear a unnecessary. Medicine has an effective weapon against Rh

The first child of a positive-negative could s usually unaffected the base 15 R positive and the changes are 3 in 6 that he will so for the creasing chance of trouble in faiter preg-

4 substance on the same of red by endinger with the A. B and O factors

blood, which may leak across the placenta or enter the maternal blood stream as a result of hemorrhage during delivery, can cause the Rh-negative mother to become sensitized, or "immunized," against future Rh-positive babies and produce antibodies that attack and destroy the babies' red blood cells.

Mildly affected babies may be only slightly anemic and recover fully from the jaundice, or yellowing that charactenzes their condition. Those with more samous cases of emithroblastosis fetalis suffer from the presence in the blood of too many erythroblasts, or immature red blood cells. Unable to do mature cells' work of carrying oxygen to the body's cells, the overworked blood-producing tissues--liver, spleen and other organs -swell and contribute to congestive heart failure, eventually causing death. The most seriously afflicted infants. however, are usually stillborn.

Once, the only treatment for Rh disease was to replace virtually the entire fetal blood supply with massive transfusions before or shortly after birth. Now prevention is possible in the form of a blood extract called Rb unmune giobulin Developed independently by research tearns in England and the U.S. nearly a decade ago the globulin acts as a vaccine to curtail the Rh-negative woman's production of antibodies and greatly reduces the risks to future Rhprocess the area

But Dr. John Gorman, one of the American researchers, warns that the



TH-NEGATIVE MOTHER WITH CHILDREN A persistent, yet preventable problem.

vaccine works only if the woman is not already immune to Rb factor. He recommends that the globulin be given automatically to every woman within 72 hours of her first delivery, abordon or miscarriage if tests show that she is Rh. negative and the baby is Rh-positive. Says he: "You've got to get in during the time that the window is once.

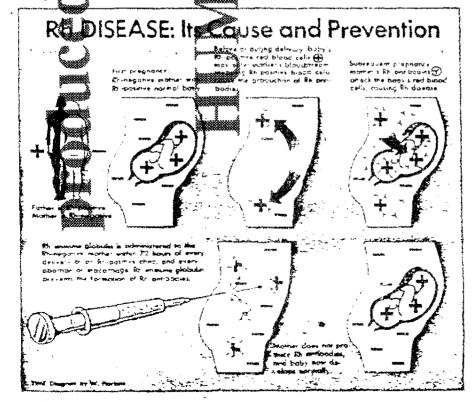
Most doctors and hospitals routinely use this vaccine on Rh-negative womon following the birth of Rh-positive babies. Connecticut has established a registry to show which patients need the incculation and which have received it Despite such precautions, many women leave the hospital with a built to pricinnicy to their offspring

Rh disease is not a major problem in Africa-nearly all black Africans this most blacks in the U.S.; are Ithpositive. In other countries, it terrains a persistent though preventable admagt The World Realth Organization estimates that 75% of the Rh-negative women in Britain now receive the vaccine. But in Italy, the vaccine is now given to only 30%, while in Venezuela. only 5% of Rh-negative mothers get the shots. Even in the U.S., where 85% are now protected the gap is still significant Only half of the women con undergoing abortions receive Rh inunuae globulin after their operations.

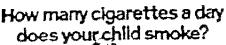
These gaps are unfortunate Used properly, the vaccinc is nearly 92%

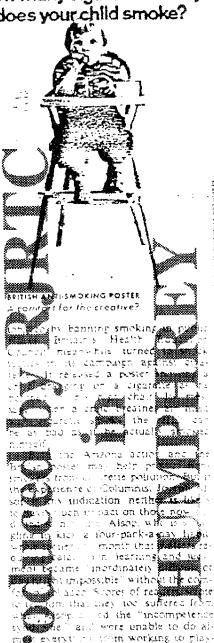
Incurable Addiction?

Ever since the Government report linking smoking with cancer and bear: disease was first published in 1964, doctors and public health officials have waged a steady war against digaretted Now their efforts seem to be increasing Last month Arizona became the first state to take legal action agains:



IMAGE





te with of digarettes inated by their response. Alsop gionce Winter Edward Brather Lien and Mheir Drugs (Con sumers Union, 1972), if doctors had sudge this problem. Brechen, whose NOW, pesseniber topacing as one of the many proposed by muricipal services used to the services to the services of th unuatric and metabolic reports on the subject. For many smokers, psychological needs combine with nicoline addiction to produce a moverful dependency Beyond that he could empairable with Alson Brecher gave up eigateives for 14 months, but started smoking again when he found that he simply could not work without them

Black Farce

THE WALTE OF THE TOREADORS by JEAN ANOUSLE

In this play, first seen in New York in 1957. Jean Anough caricatures the romantic attitudes that get men betrayed It is a black farce with a bitter persona! rang, an overprotesting cynicism, a disillusionment so dark as to suggest illusions once far too rosy

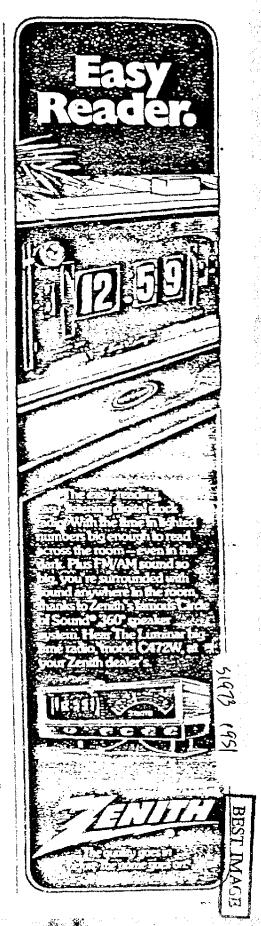
Unfailingly attired in his uniform. General St. Pe (Et Wallach) faces advancing middle age as if it were a counmartia! He is chained to a vixenish wife (Anne Jackson) who spews venom at him and presends to be a dying invalid. In his high-romanne intagination, he is in thrall to the memories of a young guil Dinna Van Der Vlin he walized with 17 years ago. St. Pois dream girl appears. only to run off with his caling aide, and the general is left aions in the dusk

Thanks to Anomin's vividly fromvision, much of the evening is howlingis funny. Wallath has always possessed partiest comic puch and he displays it again here. However, he lacks that bertain pendahé which makes St. Pe a duelist with disting rather than a Good \$44 Sunweik taking fate's pratfalls to odwingsty strong as an early straight livers her tipes take bayonet incusts.

Time tries play femisss of Brian Murray's direction somewhat masks tha com of melancholy that runs through same best characters. Their gasety ಕ್ಕಾರ varied ಕಾಂಪ್ರಸಮನ್ನ They suffer with alguage on their typs while stretched on a rack that is the distance between the way things are and the way they want



WALLACH E ISCHNON HIS MALTE Var of melanchel,



Europe got hooked. It even helped finance their freedom. "If you can't send money," George Washington told the home front, "send tobacco."

For two centuries, tobacco remained a staple of American life. Cigarettes' image of sophictication curied through popular culture, especially the movies, which taught viewers that they could took like Lana Turner or Marlene Dietrich 'r Humphres Dogact by lighting u. Edward R. Murrow interviewed guests through a cloud; tycoons fueled deals with cigars. Without smaller, it seemed, great detectives could not detect, writers could not write, loving and to languish, heroes were deflated and wamps declawed.

Consider how the image has changed. One of the intermiting TV heroes was Don Johnson's fee-dead cop. Sonny Crockett, or Miami Victoria they—actor and charter ter—have conspicuously quit. One of the latest move to light up was Glean Close in Fatal Arraction: the cigarette seemed a beacon of her madness. "For long time, yet a bette Davis' sitting at the kir smoking as a seriet as sexy," observed the in Seattle. "But then, as a society, agot close enough to smell her breath, and we realized it as a tracky at all."

or society to have charged its mission of the triumph of a crusade that actually began generations and As local there have been those who would snuff out the hab. A cigar, said Echor Horaco Greeley more than a century aga, is a "fire at one endan," a fool at the other." Justice Oliva. Wendell Homes passed along some memorable about the one of the other." Schoolchildren.

Tobacco is a hill, weed,
That from the devil does proceed:
It draines urse, it burns your
clothes
And makes we himney of your

Concerns about health were always at the heart of the antismoking movement. Victorian wonten were warned that they would become the le grow a mustache or come down with unberculosis if they dared to light up. Yet it was not until the Surgeon General's 1964 report linking cigarettes to cancer that health officials won their point. Warning labels appeared on packages after 1965, ads were pulled from television and radio in 1971, and four years later. Minnesota passed the first comprehensive clean-indoor-air law. Smoking continued to taper off throughout the 1970s. Even then, however, people were content to live and let smoke: the public spirit of laissezfaire survived every attempt by health officials to reclassify cigarettes as a hazard rather than a nuisurice

All that changed with Surgeon General C. Everett Krop's explosive report on the effects of passive, or involuntary, specific released in 1986. Knop's review http://egacy.com/specific/uc/specific/specif

Confessions of a Nicotine Freak

pro or 26 years. I've been a slave to cigarettes. For at least ten, I've been trying to a mancipate myself. Only ninctine freaks who have tried repeatedly to kick the hi bit and failed can fully appreciate how difficult it is to give it up.

I started smoking at 15 in order to feel more grownup. It wasn't long after my first drag on a cigarette—in a locked bathroom with the windows wide open so the telital. Acr would dissipate—that the cough I developed suggested that smoking was a mistake. Nevertheless, I kept puffing away relentlessly until my smoke rings were picture perfect. A year-later, motivated perhaps by the vivid illustrations of cancer-ravaged lungs in my father's medical textbooks, I made my first effort to quit. It fizzled out under the pressure of high school final exams.

Since ther. I've tried a multituri, of techniques to wrestle the nicotine monkey from my back; cold turkey (five or six times), hypnosis (once) and tapering down (more times than you could count). Switching to brands with less tar and nicotine than the usual lung busters. Putting mayonnaise jars stuffed with butts on the desk, hightstand and bathroom shelf as nauseating reminders of what smoking

was doing to my lungs, which after some 250,000 cigarettes must be as spoty as an unswept chimney flue. Chomping on golf ball-size wads of foul-tasting nicotine chewing gum. Totting up what a two-pack-a-day habit costs over the course of a year: more than \$1.000 up in smoke.

Nothing has worked for more than three months. Not-in my case at least-because withdrawing from cigagettes causes excruciating physical agony. Far from it: the mild jitteriness and irricability last only a few days. Nor have I been tempted to substitute insagiable eating for smoking. In my experience, the biggest threat to he dedgling nonsmoker is the nicotine in bit's subtie, sneak-thief ability to reascert itself whenever one's guard is down. Almost any of life's little anxieties can trigger an irresistible urge to light up. More exing still, many of life's pleasuresex, a cup of coffee, just getting up in the morning—can have the same effect.

Overconfidence can undermine even a seemingly victorious campaign to abstain. Take, as a dismaying case study, the last time I quit. A hypnotist implanted a mantra in my subconscious, to be summoned up whenever I felt the urge: "Smoking is bad for me." For this service, the hypnotist demanded \$200, which seemed a wise investment. It worked, Food tasted better, Morning bouts of coughing ceased. I felt great. So great that three months

later. I decided to prove I was truly liberated by attempting to smoke fust one without occoming hooked again. Before I knew it, I was back to two packs a day.

Medical researchers have now substantiated what failed nonsmokers discovered long ago: smoking is a powerful addiction. Unable to free themselves, nicotine addicts often seek to justify their cravenness with bombastic rationalizations that smoking is a matter of considered choice—and their constitutional rights. "I can quit whenever I want to, but I don't want to right now," the smoker tells himself and the world. It just ain't so.

Terhaps New York City's stringent new antismoking law, which went into effect last week, will finally accomplish what willpower, peer pressure and nagging by my children have failed to do. From now on, having a smoke means slinking off, like a junkie in search of a fix, to the designated smoking area, fittingly located in the men's room. Even for a hardened nicotine from k like me, that is too much of a nuisance. Still, I'm not confident. As I write, a pack of cigarettes stares up from my desk, silently imploring me to light up just one more time.

—By Lack E. White



orchesirs, and the same is true of Minneapolis, Detroit, Los Angeles, San Francisco, Seattle, and other cities. Furthermore, these hard-headed men of practical affairs are personally attending the concerts. It is only a short time ago that they bought tickets, but stipulated that their wives were not to ask them to go. Now the evening concerts show an attendance of men to the extent of nearly 50 per cent.

It is the man who immerses himself exclusively in business, and so shrinks and shrivels, who nas led the world to believe that he represents the American business man. But this type is rapidly disappearing, and whether the advancement of music, or painting, or sculpture, or reading, or education, or medicine attracts him. and becomes his chief interest and the object of his giving, he is becoming more and more the typical American man of affairs who is slowly, but surely, building up throughout the world not only a different reputation for himself, but also for American business generally.

Man's inner self is sometimes curiously awakened. A man in New York, possessed of millions of dollars, was known to give literally nothing. But one day a friend in charge of a campaign for a worthy object said to him: "I do not ask you to give. You have a right to your convictions about giving to charities. What I ask is that you will give me a check for \$10,000 which I can announce at the opening dinner this evening, not as a gift, but merely to justify my saving that I have it. Inferentially, of course, it will be assumed that it is a donation. This will make such an impression that I can secure thousands based upon your supposed contribution. Then, tomorrow I will return your check to you."

The man of millions hesitated, but finally yielded, and the friend asked that he come to the dinner. He did,

Chicago, Cleveland, Saint Louis \$250,000 subscribed on the basis of his supposed contribution. The next morning the friend returned with the check. To his surprise, the giver said: "Wouldn't take it for the world. I never realized the feeling of giving until last evening when man after man came and congratulated and thanked me. We never had such a happy evening never had such a night's sleep. You've spended up a new world to me." His hand today is one of the most liberal in all the

city's institutions which merit sup-

port. . . . How true it is that-We know what we are-We know not what we may be.

The fact must not be overlooked that as our business men widen their interests, the effect will be felt in all the institutions which they indirectly or directly influence or control. When we stop and think that the foremost of our business men sit on the boards of our universities and colleges, we can begin to conjecture how far will go the influence of their broader interests.

The world never stands still: rather, it is moving rapidly. Many are those of calm and careful thinking who believe that the movement is in the right direction. When Woodrow Wilson, in his Sorbonne speech at Paris, stopped for an instant and said. "There is a wind blowing through the world," his distinguished audience burst into the greatest applause of the evening. . . . No man can kindle the imagination of people all over the world as did Woodrow Wilson at that time without leaving an impress. Hope may be deferredbut hope is eternal. It is very selcom given to the idealist to see his ideals realized. Most of us work in one generation for the benefit of the next generation. Men are unquestionably thinking outside of old ruts and grooves. Particularly in Amer-There unquestionably is "A wind blowing through the world."

1924 Now 1924

Does Tobacco Injure the Human Body?

Condensed from The Dearborn Independent (October 11, *24) .

Irving Fisher (see note on page 447)

mo assess values the economist must inquire not only us to what poople they, but its id what they mould have for affeir power best mood—that s, what they would buy I they were more enlightened. There is a vost difference in the value to society of capital spent in dark-roomed tenements, unclean dairies, adulterated food, gilded saloons, bucket shops, and obscene literature, and expital invested in purifying the water supply, safeguarding milk against Infection, cleaning streets, building sewers, and building schools and hoxpitals. . . . Fortunately, we now have sufficient information to determine the effect of tobacco on the human

A recent aludy by Dr. Albert H. Burr, on the relation of longevity to sex, is reported by him as indicating that the tobacco habit is "one of the very significant reasons why fewer men than women attain old age." The New England Life Insurance Co. published in 1911 the following data from 180,000 policyholders. covering 60 years: Where the maximum of expected deaths was 100, of tobacco abstainers only 59 died; of rare users only 71 died: of temperate users only 84 died, and of moderate users 93 died. Excessive users were not accepted by the company.

M. Abel Gy. of Paris, who made a special and very extensive research. found that tobacco gives rise to a series of functional disturbances in different organs, especially the heart. A survey of the evidence that tobacco affects the heart was made by Dr. J. H. Kellogg, superintendent of the Battle Creek Sanitarium, and the results reported in a book, entitled "Tobaccoism." All of the important experiments were reviewed by him. He found that every authority agrees that tobacco is a heart poison. Sir William Osler elted the cases of three friends of his, apparently strong, healthy men. all of whom died suddenly, and it would seem from the effects of tobacco on the nerves of the heart.

A great authority on blood pressure, the late Dr. Janeway, of Johns-Hopkins Hospital, stated: "Tobacco has a powerful action on the circulation. Nicotine, in fess than overwhelming dose, produces an immense augmentation of blood pressure in unimals." Robert Lee Bates, of the Psychological Laboratory of Johns-Hopkins University, summarizes as follows the results of an investigation: "The effects on healthy adult reactors, of smoking a clear or three cigareta, are to produce a rise in blood pressure, and in heart rate."

Dr. Eugene L. Fisk, medical director of the Life Extension Institute, says, "My observation is that tobacco is likely to cause depression of the circulation and disturb the nervous mechanism of the heart and circulation. The following differences were shown in a group of excessive tobacco users as compared with the general group of policyholders: There were 10 per cent more cases of advanced and serious organic affections, 6 per cent more cases showing arterial changes, 15 per cent more cases showing over-rapid pulse, 15 per cent more cases showing caries of the teeth, 13 per cent more showing reecssion of the gums, and 27 per cent more showing pyorrhea. These unfavorable mouth conditions are very commonly noted among tobacco users, and are a matter of general obser-

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The effects of tobacco upon the nervous system were investigated by L. Pierce Clark, M.D., visiting neurologist to the Randall's Island has pitals and Schools. "Tobacco is primarily a cardio-vascular poison," he concludes. "Its chronic effect on the nervous system, as yet so inaccurately studied, appeared to induce toxic congestion of the brain, spinal curd and peripheral nerves, inducing finally in the latter a mild degenerative neuritis."

Precision of muscular motions, as demonstrated by drawing a line between two closely parallel lines or lunging at a target with a fencing foil, was shown by the Berry experiment to be definitely decreased after each smoking of a single cigar. It was also found that there was an average decrease of 12 per cent in accuracy of pitching a baseball after smoking one cigar, and a loss of 14.5 per cent after smoking two cigars.

Connie Mack, the famous baseball here, made it a rule not to sign up buseball men who smoked. Clark Griffiths, as manager of the Washington Nationals, said that "any player who insists on smoking cigarets is through." The fact that most conscientious athletes do not smoke when "in training" shows that they realize that tobacco is injurious. They little realize, however, how great and lasting the injury is.

Professor Pack, of the University of Utah, found that tobacco-using athletes were decidedly inferior to abstainers. Smokers were only half as successful as non-smokers in athletic honors, according to the studies made by Professor E. L. Clarke at Clark College. Muscular power begins to diminish 5 to 10 minutes after beginning of smoking, according to a study made by Professor W. P. Lombard, professor of physiology, of the University of Michigan. In un hour, when the cigar was burned, musculus power had fallen to about cent of its initial value. The ok of the time of depression,

compared with a similar normal per solt, an 2012 compared with 44.1, Nore, fundament are affections are promoted by smeking, according so the claims of a number of clinicians.

Acid dyspepsia is common to habitual smokers. In some cases there is a destruction of the capacity to feel hunger. Anemia is often found among excessive smokers, apparently due to the disastrous results of the tobacco poison upon the digestive system.

The truth is tobseco losses the whole tone of the body and dierrans its vital power and resistance. This is well shown by the fact that, in surgical emergencies, patients accustomed to smoking have been observed to suffer a great handicap in their chances for recovery. This is doubtless because the poisons of tobacco tax the vital resistance and require the expenditure of power by the liver, kidneys and other organs to neutralize and eliminate the poison.

Tobucco is injurious to the human body. It injures the heart, it disturbs the blood pressure, it poisons the nerven, it hurts the eyes, it lessens resistance to tuberculosis and other diseases, its use sometimes induces cancer, it reduces muscular power and accuracy, it impairs working efficiency, earning power and athletic power, it stunts the growth of the young it probably shortens life, it probably reduces fertility.

In short, tobacco acts as a narcotic poison, like opium and like alcohol, though usually in a less degree.

No question seems to exist as to the harmful effects of the "excessive" use of tobacco. Habitual smokers will generally admit this fact. Because of individual variations, the line separating "excessive" from "moderate" is an clusive boundary, and there is always a tendency toward increasing the use; "moderate" use seldom stays moderate. From every indication, it behooves the man who wishes to keep physically fit to omit tobacco from his daily schedule.

Reader's Digest Service

The Worker Emancipated

Condensed from The Forum (October '24)

Villiam Basset

ANY assume that to work day in and day out at a loom must be most revolting in its monotony. But I see in a boiler shop not a balt of noise and bot metal, in which boll he sless of mechanisms but rather the mechan of freing the means of freing thousands of months from the real stavery of carrying coul up countiess flights of steps. I see not only the more comfortable lives that those boilers will bring: I see in the nowy but light and casy-to-handle rivellag hammer a machine which saves a dozen men the back-breaking work of swinging heavy sledges. see one man do more work with it in eight hours than the dozen would have done in a 12-hour day. I know that while the dozen would have fallen in bed an hour after the whistie blew, worn out with their efforts, the "slave" of the riveler is at and ready for a half dozen hours of play. And this slave of a machine has more money to spend and more comforts in which to spend it than had the freeman of the hand hammers. That one picture portrays most of the ways in which machines have not men free from slavish drudgery.

I could cite hundreds of cases where machines, in displacing hand work, have resulted in less fatigues and greater earnings to the worker, increased production, and lower prices to the consumer. To the unformed observer a rapidly moving machine may seem to demand a killing pace from its attendant, but actually it practically never does. In the first place an intelligent manufacturer knows—and the others soon find out—that a speed which fatigues the worker produces a lower output in a day than does a slower pace.

Reader's Digest Service

I have yet to see a machine in any ladustry that does not make the operation easier for the worker than when the same work was done by hand. The trouble with those who denounce machines is two-fold. The machine impresses them as sort of noisy. Inhumas-en inercrable deril that would as soon eat the Best of the worker as the metal it is fed. They do not understand the machine and they seem to feel that the worker fears it as much as does the prainformed uplifter who is doing the pitying. Second, these critics do not know how these operations were performed before the horrid machines came into being. Therefore, they cannot see that the machine attendant is either of a low grade of mentality, one who without the machine could not make a living, or is a far higher type than was the man who formerly did the work by used.

This was strikingly but unintentionally demonstrated at a textile exhibition where, side by aide, were shown in operation the old hand from and the modern Jacquard loom. The old weaver on the hand loom is thought of as a craftsman, while the modern weaver is pitted as merely an attendant to a machine. Yet the principal difference between a hand loom and a power loom is that one used man power while the other uses mechanical power. The old time weaver was merely as inefficient power plant, and looked about as happy and inspired when he worked his hands and feet as does the plug borse in a tread mill. The Jacquard loom is a complicatedalmost intelligent-piece of mechinory that requires expert attention from its operator. The slaves of this machine are alert, intelligent,

Henry C. Link, Pb.D. Director of the Psychological Service Center, New York City; author of "The Return to Religion"

gooner or later, nearly every cigarette smoker discovers that he is not smoking by choice but by habit, and that the habit is probably harmful. So he tries to break free from it, but finds that he doesn't know how. Sometimes halfheartedly, sometimes earnestly, he wastles with his addiction - but in vain. His self-control has been perilously undermined by a mere mechanism of habit.

For years he has been practicing daily that mechanism, without realizing that it was becoming automatic, that he was perfecting a whole chain of habitual motions, an irresistible nervous-muscular process. begins with lifting the pack, extracting a cigarette, tamping one end, placing it between the lips, striking match, inhaling the first gulp of smoke, and so forth, until the stub reaches the ash tray. Every cigarette consumed involves the same chain of actions and reactions, which seem to set themselves in motion and to andutomatically to the end. Often the amoker is not even aware of min. Like an old-fashioned clock wound up to strike, he is set to go

and set to finish, dozens of times a day. Like a robot, he moves at the command of an invisible master.

Is there anything he can do about

Behind that question lies an important lesson in psychology. For the habit of cigarette smoking is only a familiar instance of the psychology of all habit forming and

habit breaking.

During the last decade the consumption of cigarettes in the United States has increased from 106 billion to 162 billion a year. Today about 60 percent of the men and nearly 20 percent of the women are consistent cigarette smokers. The average consumption for men is 20 cigarettes a day, and for women, II a day, with each amoker drifting helplessly toward a still larger quota. This habit of smoking, although it appears to many to be a trivial part of living, may be viewed as symbolic of a fundamental trend in modern civilization. That trend is the increasing frequency with which individuals permit themselves to become the creatures of their habits rather than the creators of their environment.

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Teachers' Manual

for use with

YOUR HEALTH

Today and Tomorrow

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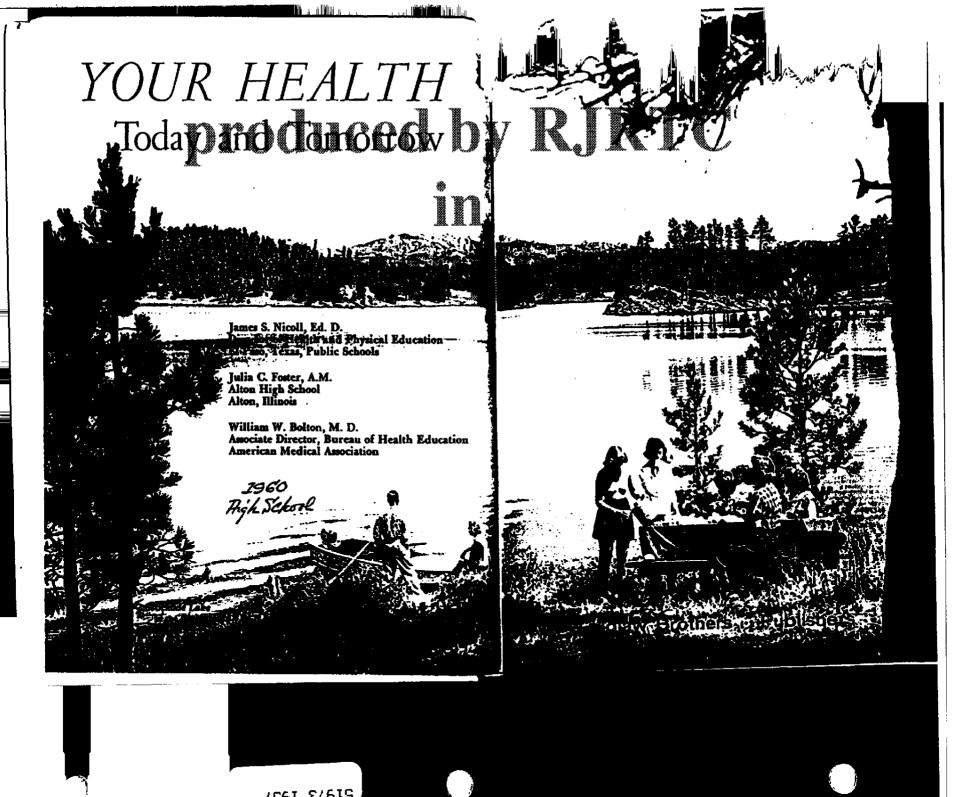
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anor hear well; his vision, roo. becomes blurred. Next, when the motor centers are affected, the speech becomes thick and shirred. The person cannot walk straight or stand up straight. He staggers and may fall. Finally, if he drinks emough, he "passes out."

The effect of alcohol on muscular efficiency is largely due to its effect upon the nervous system. Alcohol slows down the reaction time: that is, the muscles do not obey the brain as quickly as they normaily would. Experiments have shown that even small amounts of alcohol cut do wn on the amount of muscular work that a person can do. Alcohol also affects the accuracy of the work. You can see why a person who has been drinking should not drive a car.

Excessive drinking. Most problem drinking stems from an inability to deal

This machine has been designed to test the effects of excessive drinking upon driving.



satisfactorily with life. It has been estimated by the National Committee on Alcoholism that there are more than 65 million people in the United States who drink alcoholic beverages, It is further estimated that about four million of these people have found that alcohol is a problem in their lives. About 750,000 of the users of alcohol drink to such an extent that they injure their physical and mental health. Physicians call these people alcoholics.

The alcoholic, Alcoholism is a condition of uncontrolled, or compulsive drinking. It is a real disease. Since an alcoholic is not able to control his drink. ing, he is not likely to be cured by scolding him, shaming him, or urging him to use his will power. Although he knows that he is harming himself, he is driven to drink by some inner need.

It is not understood why some drinkers become alcoholics while other heavy drinkers do not. It is possible that alcoholics differ physically from other people. Their bodies may require elements present in alcohol and yet, at the same time, be unable to handle them.

Although no cure for alcoholism has been found, great strides have been made toward understanding the problem. Moreover much progress has be made in helping alcoholing to opporting ing. For example, new energy fleve been developed for this. The most lasting cure, however, seems to be one in which the person is helped so that he becomes able to meet his problems without drinking.

Alcoholics Anonymous (d'non'i-mus) is an informal organization that below people to stop drinking. The membership is made up of persons who have learned about alcohol the "hard way." In other words, many of the members have been alcoholics themselves. The only requirement for joining is a desire to stop drinking. This group has done much to save alcoholics from themselves. but physicians and AA members agree that most alcoholics must also have medical care.

The cost of drinking. A moderate drinker can easily spend twenty-five to forty dollars a month on alcoholic beverages. The people of the United States as a whole spend more than ten billion dollars a year on them. This is much more than is spent on education, and it is very much more than is spent on national health.

Excessive use of alcohol often leads to crime, to divorce, and to family unhappiness. Much illness, to be paid for in doctors' bills and in toss of income, comes from such drinking. It is also recognized that drunkenness causes many accidents. Certainly there is no doubt that heavy drinking is a very bad habit. liven moderate driffin is potentially lafferiqus because can lead to excesive dainking.

Increasing use of tobacco. Tobacco has been used by man in some form or other for hundreds of years. However, there has been a huge increase in its use in the past twenty or thirty years, particularly in cigarettes. During these

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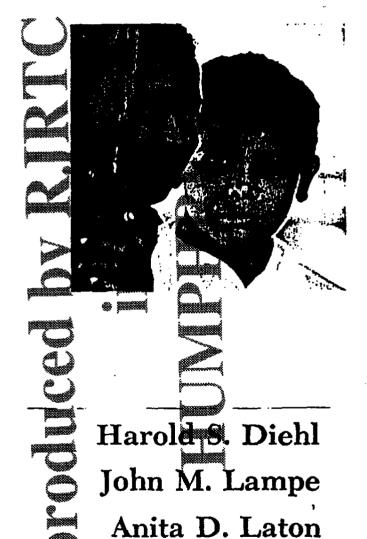
same years, there has been a marked increase in the amount of heart disease and cancer, especially cancer of the lungs. Although other factors must be taken into account, many scientists suspect there may be at least a relationship between the increase in the use of tobacco and the rise in these ailments.

For example, there is experimental evidence that nicotine causes the blood vessels of the body to contract. This raises the blood pressure and forces the heart to work harder to pump blood through the body. In some circulatory diseases in which arteries tend to become narrowed, smoking definitely increases this tendency.

The facts about SMOKING and . . .



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HEALTH AND SAFETY FOR YOU

Fourth Edition
Teacher's Edition

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Charles D. Oviatt

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nerve cells that control various groups of muscles, causing paralysis. The extent of paralysis depends on the number of nerve cells attacked. When death occurs, it is usually caused by severe damage to nerve cells that control the muscles of breathing.

After years of research, Dr. Jonas Salk succeeded in making a vaccine that provides high-grade protection against paralytic poliomelitis. This vaccine, which is given by injection, was licensed. The United States Public Health Service in 1955 for general A dramatic degrease in the incidence of the disease resulted. The Salk vaccine has been largely replaced by an oral vaccine leveloped by Dr. Sabin. It was licensed for general was in 1962. An oral vaccine is taken by mouth.

Infants should be interested during the hirst six months of life. Hooster doses should be given when there is a threat of an epidemic, when traveling to an area where polio exist, and at six time of entering school. If not previously immunized, child-teachould be given a full course of vaccine when beginning school.

Strake Apoplexy is commonly called tiske. Stroke is the third most frequent cause of death in the latter States, exceeded only by heart disease and cancer. Strokes are rare in young people but are a frequent cause of disability in alder persons. Most persons who have strokes have had high bread pressure or arteriosclerosis. A study as shown that in women between 45 and 54 years of age, strokes are twice as frequent in clearette smokers as in nonsmokers.

Stroke occurs when the blood supply to an area of the brain is suddenly cut off. The usual cause is the formation of a clot in a small blood vessel of the brain or a break in such a blood vessel. The result is partial or complete paralysis of the portion of the body controlled by that area of the brain to which

the blood supply is cut off. Frequently, speech is impaired. If the stroke is severe, unconsciousness or even death may occur.

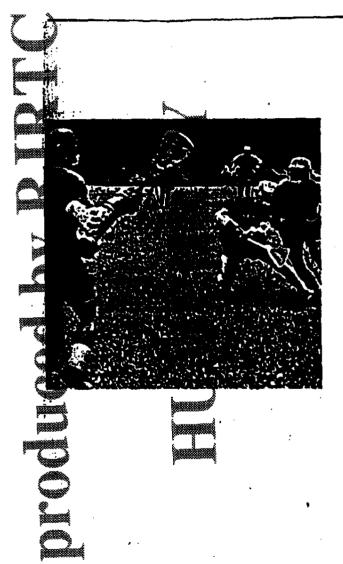
Prompt medical treatment and rehabilitation can greatly improve the condition of the stroke patient. Understanding and assistance from members of the family are essential.

Mental retardation Mental retardation is a condition in which the brain does not reach full development. The mentally retarded person is limited in ability to learn, to put learning to use, and to get along normally with other people. Children who are mentally retarded range from nearly normal to totally dependent.

It is estimated that 3 out of 100 babies are born mentally retarded. The total of retarded persons in this country is approximately 6 million. About 2½ million are children and young people under 20 years of age. The degrees of retardation within this group are as follows:

- At least 2 million are mildly retarded.
 Most mildly retarded persons are able to
 support themselves. Although limited in
 their capacity to learn, they can by special
 education and training learn to do un skilled or semi-skilled work.
- About 150,000 are moderately retarded.
 Their rate of mental development is less than half that of the average child. Moderately retarded persons can be trained to take care of their personal needs, to do some kinds of housework, and to work away from home under special conditions.
- 3. About 100,000 are severely retarded. They can learn self care but are rarely able to do any useful work.
- 4. About 50,000 are profoundly retarded. They are totally dependent and need help in eating, toilet care, dressing, walking, and performing other simple acts.

Discrete programme of the point for tenter and higher mentally relief of the explorate point of the community,



As boys and girls grow up, their parents make important decisions for them. There comes a time, however, when boys and girls should and must make their own decisions about many matters of vital importance to their future health and happiness.

Some decisions which young people must make for themselves are considered in this unit: decisions concerning the use of tobacco, of alcohol, and of mind-affecting and potentially habit-forming drugs. It is essential that everyone be accurately informed concerning these subjects so that intelligent and wise decisions can be made.

Much supplemental information on the effects of tobacco is available without charge. See the Bibliography of the Commentary for Chapter 9 for sources.

> Chapter 9 Use of bacco

Do you know on pages:

Medical and scientific knowledge leaves no doubt about the minimal effects of smoking. In fact, the Surgeon General of the United States Public Health Service has stated, "... cigarette smoking is the major preventable cause of illness, disability, and premature death in this country."

SMOKING HABIT

A person may start smoking for any one of many reasons. He continues because he has developed the habit. Smoking leads to

Also point out the mess and clutter of ashtrays and the possible fire hazards associated with the smoking habit.

Do you know . . .

- whether smoking harmful?
- · why boys and girls start to smoke?
- why most smokers find it difficult to stop?
- whether stopping after years of smoking does any good?

a strong addiction to tobacco which is very difficult to overcome. A regular smoker may be uncomfortable and unhappy when he tries to stop. The craving to smoke may interfere with his thinking, interrupt his work, or make him careless, cross, and irritable.

Many people continue the habit of smoking, which they do not really like, because they do not make a strong effort to stop. Will power, time, and discomfort are involved in breaking a well-established habit. In a survey of regular cigarette smokers, only 30 percent reported that they enjoy smoking and consider it worth the cost; 80 percent said that they hope their shilden never smoke.

distaken reasons for smoking Some people think that tobacco relieves fatigue. This may be because nicotine in the smoke causes a temporary increase of sugar in the bloods and more sugaryneans more fuel for the muscles. After a brief time, however, the fuel is gone and the fatigue is greater these before. It is also said that smoking relaxes nervous tension. This is doubtless and to whom a cigarette reves temporary refier. The relief from nervous tension may result from the fact that smoking gives the smoker something to the this hands. There is no evidence that cigarette smoking has been standuilizing effects.

Smoking by stantints will any boys and pirls by cigarette smoking before or during their early teens. The parents, teachers, and older brothers or sixtes may smoke. Pacific their friends moke. They may coasider smoking the smart, sophisticated, please able, and socially popular thing to do. Usually smoking is not small able until the person becomes habituated to tobacco. By that time it may be difficult to stop.

SURSTANCES IN CIGARETTE SMOKE

Cigarette smoke is a mixture of gases, vapors, and the suspended paricles. As it enters the most, each cubic centimeter of smoke contains millions or billions of these particles. Among the potentially harmful gases in this smoke are carbon monoxide and hydrogen cyanide. The carbon monoxide is present in a concentration 400 times that

Many young people start to smoke because they think it is "adult" behavior. However, fewer adults smoke than do not.

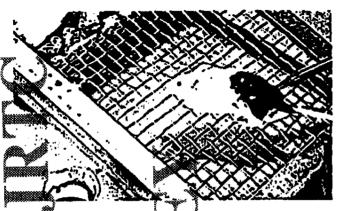


Good athletes must practice good health habits in order to keep up their ability.

considered safe in industrial exposure, and hydrogen cyanide in a concentration 160 times the safety standard. Carbon monoxide, which reduces the oxygen-carrying capacity of the blood, is believed responsible for the reduced wind, or shortness of breath, of smokers. The particles in smoke contain nicotine and a large number of chemicals which can be condensed into a brown sticky mass called tar.

Every smoker absorbs some of the nicotine and the tars in cigarette smoke. Smokers who inhale retain most of these substances in the body. The nicotine appears to be responsible for addiction and for the diseases of the heart and blood vessels. The tars are responsible for cancer, bronchitis, emphysema, and other diseases of the respiratory tract associated with smoking.

Some filters are quite effective in reducing the amounts of tar and nicotine in the smoke. Others are worthless.



Scientific experiments when shown that chemicals in tars from tobacco smoke produce cancer when applied to the skin of the bouse. Experimentation with animals in the tabouters sives human lives.

Nicotine The nicotine in tobacco smoke powerful plorless poison. When absorbed into the bloodstream, nicotine affects the nervous system. A drop of pure nicotine injected into the bedy would cause death in a few minutes thany cigarette smokers who inhale absorbe equiph nicotine each day to kill instantly in were injected directly into the blood. A person does not die after smoking because the anount of nicotine absorbed at any one time is less than a fatal dose.

The beginn at the object of the base symptoms of mild nicotine poisoning. Even habitual smokers sometimes show the same effects. These symptoms include dizziness, faintness, rapid pulse, claiming skin, and sometimes nausea, vomiting, and diarrhea.

Tobacco tars

The tars in tobacco smoke intain a large number of chemicals. Some of these, called carcinogens, produce cancer if applied to the skin of animals. Others, called co-carcinogens, do not produce cancers themselves but act with other chemicals to cause cancer. Others, called phenols, destroy

the protective action of the cilia that line the respiratory tract. Still others are irritants that cause a cough and probably are responsible for the gradual destruction of lung tissue and for the disease emphysema.

EFFECTS OF SMOKING

Convincing evidence of the harmful effects of smoking has caused many physicians to stop smoking. Only about one physician in four smokes cigarettes. Of the surgeons who operate on patients with lung cancer only one in seven smokes. Of the physicians who do smoke, 89 percent say that they do so against their better judgment. It thus appears that those who know the most about the effects of smoking smoke the least.

Immediate effects In most people, smoking reduces the appetite and dulls the senses of taste and smell. The unattractive brown stains on the teeth and fingers of cigarrette smokers are caused by tobacco tars. Both nicotine and tobacco tars are irritating to the respiratory tract. The tars are responsible also for loss of smell, unpleasant mouth conditions, and bad breath.

Nervous system Smoking may cause headaches, sleeplessness, and irritability. Excessive use of tobacco occasionally damages vision or hearing. To some people, who are allergic to it, tobacco in any form acts as a poison.

Heart and circulation The heart rate increases after smoking. In one group of young people studied, the average increase after a single cigarette was 21 heats per minute. Occasionally, the heartbeat becomes irregular and there is pain in the chest.

Smoking causes the small arteries to contract, or become smaller. This cuts down the flow of blood through them and results in a lowering of the temperature of the skin. This occurs in habitual smokers as well as in beginners. In a study of 100 persons, smoking a single cigarette caused an average drop of 3.3 degrees Fahrenheit (3 degrees Celsius) in the temperature of the fingers and toes. This is usually accompanied by an increase in blood pressure.

length of life Some insurance companies charge higher inter for life insurance to bigarette smokers than to nonsmokers. Their records show that civilete smokers die earlier than nonsmokers. How much earlier depends upon the agest which a person begins to smoke, the amount smoked, and the degree of inhalation. Males who start smoking at the age of 15 on the amerage live 8.3 years less than males who are nonsmokers.

Another vay of expressing the increased ask is that the changes of a man of 25 dying before \$5 mm 50 personal greater for one who smokes less than one package of cigarettes a day than for a nonsmoot. They are 100 percent greater for a two-package-a-day smoker. The chances of a min of 25 dying before 50 are 70 percent greater for one who smokes than half a package of cigarettes a day and 160 percent greater for one who smokes to or more packages of cigarettes a day than for men who do not smoke cigarettes.

MOKING AND DISEASE

There is convincing evidence that cigarette smoking is a primary or a contributing ouse of several major diseases. Cigarette which gis also one of the causes of persisting minor ailments which bring much discomfort and loss of efficiency in living.

Coronary heart disease Smoking puts a strain on the heart and blood vessels. It also

Arrange for a class discussion or debate on the prosand cons of smoking. Are the possible advantages of smoking worth the price? reduces blood flow through the lungs and lowers oxygen absorption in the lungs. These effects cause shortness of breath. They also deprive the heart of an adequate supply of oxygen. There are more than twice as many deaths from coronary heart disease among cigarette smokers as among nonsmokers. The American Heart Association estimates that more than 100,000 deaths a year from heart disease in the United States are attributable to smoking.

Concer Pipe and cigar smoking and tobacco chewing have relatively little effect on the heart or lungs, but they may cause cancer of the mouth, tongue, and lips. Vastly more common and serious is lung cancer, which has been shown to be caused largely by cigarette smoking. In a recent year, approximately 55,000 persons in the United States died of lung cancer. Of these deaths it is estimated that at least 80 percent were due to cigarette smoking. In other words, an average of 150 persons die each day from lung cancer caused by cigarette smoking. Most of these victims are of middle age or older, but a medical journal recently reported the deaths of two young persons from lung cancer. One was a 19-year-old boy who had smoked cigarettes since he was six. The other was a 16year-old boy who had smoked for five years. This boy died within six months after his lung was removed. Also, a surgeon reported 28 cases of lung cancer in patients under 20 years of age.

The risk of lung cancer decreases with the cessation of smoking. Five years after giving up smoking the death rate from lung cancer is only half as high as for men who continue to smoke. At the end of 10 years the death rate is almost the same for those who have stopped smoking as for men who never smoked regularly.

The risk of lung cancer increases with the amount of smoking. The risk is five times

| Relative Death Rates* | | | | | |
|-------------------------------------|------------|---------------|--|--|--|
| Cause of death | Nonsmokers | Smokers 17 | | | |
| Heart disease Chronic bronchitis | 10 and | | | | |
| Chronic bronchitis emphysema | 10 | 60 | | | |
| Lung cuncer | 10 | 110 | | | |

U.S. Department of Health, Education, and Welfare

as great for men who smoke 10 cigarettes a day as for nonsmoless. It is 10 times as great for those who smoke 20 cigarettes a day. It is 20 times as great-for those who smoke 40 cigarettes a day. The increases also with the degree of inhalation and varies inversely with the age at which one begins to smoke. It is 50 percent greater those who start to smoke before age 15 than for those who start after age 25.

Other types of cameer that are higher among cigarette smokers than among non-smokers are cancer of the larynx (5 to 7.5 times as high), cancer of the esophagus (3 to 5 times as high), and cancer of the urinary liadder (2 to 3 times as high).

Chronic bronchitis and emphysema Heavy smokers often have a chronic cough. It is caused by irritation of the linings of the nose, throat, and langs. In time this irritation may be followed suppose bronchitis and emphysema. Emphysema is a disease in which the lungs lose their capacity to connect and expand and to absorb oxygen. Shortness of breath results and usually progresses until the victims become disabled.

In recent years, deaths from emphysema we increased even more rapidly than those lung cancer. If present trends continue, it is estimated that by 1976, 100,000 people in the United States will die each year from chronic bronchitis and emphysema. As a cause of crippling disability, emphysema ranks second only to heart disease.

Most studies of the ef-Other illnesses fects of smoking have compared the death rates of smokers and nonsmokers. Studies of current illness, however, are of equal if not greater immediate concern. Such a study reported by the Surgeon Ceneral of the United States Public Health Service shows that Americans who smoke cigarettes experienced in one year 12 million more chronic illnesses than nonsmokers of the same age. Among these illnesses are about 2 million more cases of sinusitis, 1 million more cases of chronic bronchitis and emphysema, and 1 million more cases of ulcers of the stomach and duodenum.

The same study shows that cigarette smokers lose a third more time from work because of illness than those who do not smoke and that there are 77 million lost workdays associated with cigarette smoking each year. The loss of 77 million workdays represents nearly 19 percent of the entire annual work loss in the United States resulting from illness.

The report also presents data on the days spent in bed and the days of restricted activity associated with eigarette smoking. In each case, the rates for eigarette smokers were greater than for nonsmokers. The number of days spent in bed because of illnesses associated with eigarette smoking is estimated at 88 million days annually and the number of days of restricted activity at 306 million days annually.

A report from a preparatory school in the East classified the respiratory illnesses of 179 boys 14 to 19 years of age. Severe respiratory illnesses were 9 times as common in the regular smokers as in the nonsmokers. In the occasional smokers, these illnesses were 2.6 times as common.

A study of students from 11 to 18 years of age in England revealed that boys and girls who smoked cigarettes had more respiratory

Point out that it is easier never to sme be than it is to stop after the habit has been never be.

illnesses with persistent cough than those who did not smoke. The heavier smokers had more severe symptoms. The symptoms deceased promptly when they stopped smoking.

Snoking by women Death rates from smoking-related diseases among women are similar to those of men but of less degree. This is probably due to the fact that women have not smoked so long or so much as men. In recent years, however, when more women have been smoking and smoking more heavily, the rate of increase is lung cancer, emphysema, and coronary heart disease has been greater among women than among men.

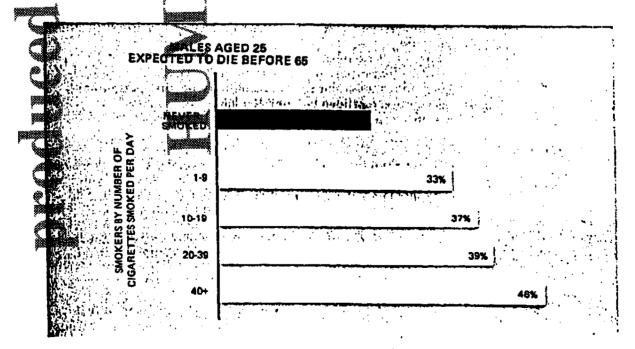
Studies have slawn that eigarette smoking by a pregnant woman is harmful to her
andorn baby. Infants born to smoking
mothers weight less and use more susceptible
to disease along infants born to nonsmoking
mothers. These smalls and weaker babies

do not overcome their initial handicaps for several months.

YOUR RESPONSIBILITY

Information about the health hazards caused by smoking is more widespread today than ever before. Many adults have broken the habit because they have been informed of the harmful effects of tobacco.

Young people should consider carefully the health risks involved in smoking. According to the United States Public Health Service, eigarette smoking is a major cause of illness, disability, and death. They should decide whether their reasons for wanting to smoke are worth forming a habit which is extremely difficult to break. The money spent in maintaining the smoking habit may be a burden. The decision to smoke or not to smoke should be based upon consideration of all the available evidence on the subject.



MAIN IDEAS

- Cigarette smoking is a major cause of cancer, heart disease, chronic bronchitis, emphysems, and several other diseases.
- Illness, disability, and hospitalization are much higher among cigarette smokers than among nonsmokers.
- The risk of lung cancer decreases if a person stops smoking eig-
- The diseases associated with smoking are rising more mpidly among women than among men.
- The smoking habit is difficult to break.

EY WORDS

HECK YOUR KNOW

tar

co-carcinogen phenol

emphysema

nicotine

carcinogen

EDGE

Why does the carbon monoxide in cigarette smoke cause shortness of breath in smokers?

Why do some life insurance companies charge higher rates to smokers than to nonsmokers?

What is the effect of smoking on the mouth and teeth?

Which element in cigarette smoke seems to cause addiction? What effect does cigarette smoking have upon the temperature of the fingers and toes, upon the heart rate, and upon the blood pressure?

What effects do tobacco tars have on the body?

What is the purpose of cigarette filters?

What are some of the symptoms of mild nicotine poisoning?

Does tobacco relieve fatigue? Explain.

List the facts unfavorable to smoking.

PPLY YOUR KNOWLEDGE
Discussmoke

Discuss smoking with smokers and nonsmokers. Ask those who smoke: At what age did you start smoking? Why did you start? Do you sometimes wish that you had never started? What do you smoke? List the reasons why the nonsmokers do not smoke.

- Collect and discuss articles on the dangers of cigarette smoking.
- 3. List the reasons why you will smoke, or why you will not smoke.
- Find out if there is a law in your state governing the sale of tobacco.

(1) In some cases, taking a laxative can result in complications or even in death. Great care must be used if laxatives are taken.

Laxatives act in different ways to stimulate the muscles of the digestive tract. Genemlly, laxatives should be used only on the advice of a physician.

If is easy to develop a habit of taking laxnives. If a person forms the habit, larger doses or stronger laxatives become necessary to produce a bowel movement. As a result, muscles of the intestine become fatigued and muscles of the damage.

sually constipation may be avoided if a person:

Drinks plenty of water

 Ents enough fruits and vegetables
 The es some exercise every day

4. Forms the habit of the toilet at the same time every day.

5. Lams to relax, especially at mealtime.

Ucers Ulcers are small eroded spots in the digestive lining, usually of the stomach or the duodenum. They are often associated versecretion of heidsig the stomach. The may bleed, erode through the wall of the directive tract, or descript into cancer. vous tension is an important factor. So is cigarette smoking; ulcers of the stomach are live trigies as frequent in cigarette smokers as an nonsmokers. Spec states and medicawell as discontinuance of smoking and lief of nervous tension - are importanken treatment. In some cases, surgery is nebassary.

Appendicitis Near the beginning of the large intestine is the vermiform appendication in man.

When the appendix becomes inflamed, the condition is called appendicitis. The first symptom of appendicitis is usually pain. The pain may be sudden and severe, or it may be mild. Later symptoms may include nausea,

(2) A person who has frequent indigestion or ulcers may be under emotional stress. Often, the best preventative for indigestion or ulcers is a change in daily life to reduce stress.



Dr. William Beaumont, a 19th-century American physician, studied the stomach of a very unusual patient. The patient had received a wound that tore away part of his stomach. The wound healed, but an opening to the outside remained. Through this hole Dr. Beaumont observed the secretion of gastric juices, the digestion of pieces of food, and other processes. He is shown collecting gastric juices. Dr. Beaumont's observations greatly advanced the understanding of digestion.

vomiting, constipation, fever, and soreness over the lower right abdomen. If these symptoms occur, call a physician. Do not take a laxative, and do not use a hot water hag or an electric heating pad. Heat or a laxative may make an infected appendix break, spreading infection through the abdominal cavity. Practically every death from appendicitis is preventable, but it remains the cause of many deaths in the 15- to 24-year age group.

Hemorrhoids Sometimes the veins around the anus or in the rectum become swollen with blood. Such a swollen vein segment is called a hemorrhoid. Hemorrhoids sometimes bulge out near the anus. A blood

Perhaps your principal will allow you to conduct a safety survey of your school.

SCHOOL SAFETY

Many accidents among young people of school age occur at school or on the way to make from school. Traffic safety is emphasized in the early school years. The need among school students is to remember to use the rules that they have learned.

School accidents are seldom fatal, but many result in serious in the Accidents may occur in classrooms, lunchroom, halls, shops, samusium, or on the school grounds. Students are the human alement that makes places safe or dangerous. Improper use of againment, machine and apparatus may cause accidents.

Poor physical condition fatigue, carelessness, or taking characteristic counts for most accidents to students in athletic activities. Good physical condition and proper use of manner are assented for the safety of those who passenger is and s.

SEFETY ON THE JOS

A perion's working years may be spent at sea, on a farm, in a mine, in the bods. They may be spent in a factory, a shop, a store, a laboratory, an office. Wherever people work, their jobs should be safe as well as pleasant, interesting, and profitable.

Each year more than 14,000 people in the onited States lose their lives in accidents related to their jobs. More than 2 million are injured while at work. About 8 out of 10 occupational accidents are the fault of the person injured or of his fellow workers. Prevention of accidents, therefore, depends largely upon the training of workers in safe work habits. About 1 out of 10 accidents on the job could be prevented by the proper upkeep of buildings, tools, and equipment and by the workers' use of necessary safety equipment.



Many fires, injuries, and deaths are caused by smokers who fall asleep.

Many accidents occur around machines. The most common unsafe practice is failure to stop a machine before adjusting, repairing, or cleaning it. Lack of guards or improper use of guards causes a large number of accidents with saws. In the use of grinding wheels, eye protection and proper adjustment of the tool rest are important safety measures.

With nuclear energy replacing present energy sources, more persons will have jobs in which radiation will be a hazard. Special safety equipment is needed for protection from radiation.

Identical twins Identical twins begin as one fertilized ovum. In some cases, at the 2-cell stage, the 2 cells separate completely and each divides into 2, 4, 8, 16, and so on. Such complete separation into two identical garts may occur at any one of the first few stages of cell division. Thus, two embryos develop. Because both develop from the same ovum and sperm, they have identical genes. If a second such complete separation occurs early in one of the series of cell divisions, identical triplets will result. Additional separations are rare, but could result in four more identical babies. When multiple embryos develop from a single fertilized wum, all are attached to one placenta but ere is an umbilied cord for each embryo. Identical twins seeme bodies are joined together are called Siamese twins. In 1811 me famous pair of men twins was born in Thailand, which was then called Siam. Siamese twins may be joined in any area of the body. The union may involve only skin and muscle, of it may transitive several tissues or stial organs. The joining results from partial separation of cells in the early stages of cell division. Sometimes twins can be sepanted after birth by surgery. In other instances, separation is notpossible.

returnal twins

Coasionally an ovary

coduces two ova

cover here two ovaries each produce an

cover at the same time and of alternating,

as is usual. If each ovam is fertilized by a

sperm, the normal sequence of development

then follows and results in the birth of fra
menal twins. Each twin comes from one

merm and one ovum. If three or more ova

are released and each is fertilized by a sperm,

then triplets or a larger number of babies will

result. All are fraternal, since each comes

from a different ovum and sperm. Each will

have its own placenta and umbilical cord.

PRENATAL CARE

It is important for parents to consult a physician as soon as they know a baby is expected. The physician will advise the mother about food, exercise, and general health care.

Nutrition During pregnancy, the developing baby is dependent upon its mother for all its needs. The mother's health, therefore, is of great importance to the baby. The expectant mother needs to eat plenty of nourishing foods, especially proteins. All the baby's organs and tissues are built from digested foods absorbed from her blood. She needs to drink extra milk for calcium and vitamin D, so that the baby will have strong bones and teeth.

Diseases and drugs The mother-to-be should avoid communicable diseases and should take the best possible care of herself if she becomes ill. Some illnesses which are not serious for a grown woman, German measles (rubella) for example, may do great damage to an unborn baby. Some drugs may be harmful to an unborn baby. Therefore, an expectant mother should use no drugs except with her physician's advice. Defects in newborn babies which are the result of diseases, drugs, or damage during pregnancy are called congenital defects.

Cigarettes and alcoholic beverages Nicotine and alcohol are poisons and may be harmful to growing tissues. Nicotine and alcohol are absorbed into the blood and can pass through the placenta into the baby's body. A study of 7,500 pregnancies showed that the rates of loss of fetus and premature births were nearly twice as great for smoking mothers as for nonsmoking mothers. The exact amounts of nicotine and alcohol that may be harmful are not known. A pregnant

Nutrition is quite important during pregnancy. A buby born to a mother who has suffered severe malnutrition is frequently mentally returded.

woman, with her physician's advice, must decide whether she will use tobacco or alcohol. Her decision is important also if she plans to nurse the baby, because nicotine and alcohol in her blood can be absorbed nto her milk.

Prenatal influences Knowing the basic facts about how babies develop helps in evaluating stories, superstitions, and unfounded beliefs about pregnancy. Musical interest or ability annot be acquired by the child because the mother listened to music

during pregnancy. Witnessing of an unpleasant sight by the mother will not mark the baby. However, the way people feel does affect the way their bodies work. If an expectant mother is depressed or severely upset, her nutrition may suffer. Her depression does not directly affect the baby, but the nutritional disturbance associated with the emotion may do so. Also, the hormones secreted as a result of fear or depression can pass through the placenta into the baby's body. These hormones may have a harmful effect on the baby.

Puberty is the period during which the testes start to produce sperm cells and the ovaries start to produce ova, or egg cells.

A human being begins as a single cell formed by the union of one ovum and one sperm.

A new individual, growing for approximately nine months in the mother's uterus, obtains oxygen and nutrients through the placenta and the umbilical cord.

Identical twins are born if the fertilized egg divides into two embryos soon after the union of egg and sperm. Fraternal twins are born if two ova are fertilized at the same time in the oviduct. The quality of nutrition, rest, and exercise a mother gets during

pregnancy can affect the baby.

ovum sperm testes ovaries puberty semen menopause endometrium menstruation embryo

fetus
placenta
umbilical cord
umbilicus

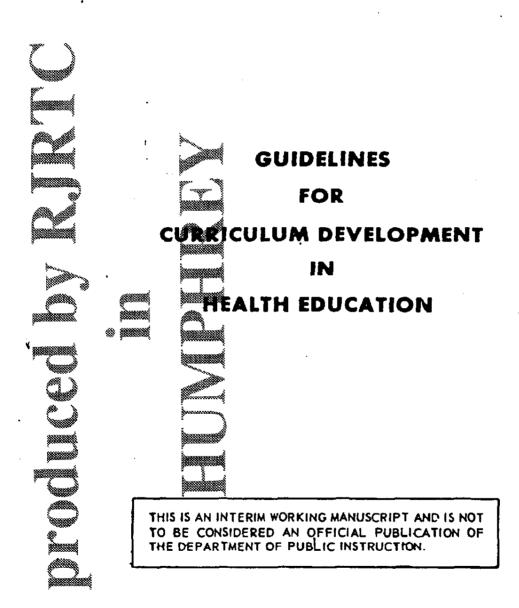
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COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF PUBLIC INSTRUCTION BUREAU OF GENERAL AND ACADEMIC EDUCATION HARRISBURG



PILOT STUDY MATERIALS

DEPARTMENT OF PUBLIC INSTRUCTION WORKING PAPERS

NOVEMBER, 1967

SMOKING

Rationale for Unit:

Until recently tobacco smoking was something that one could take or leave without undue concern that smoking presented any obvious risk to health or to life. Today, physician and other scientists have begun to suspect possible hazards in smoking, specially cigarette smoking, and a controversy over this subject still continues.

Nearly 70 million people in the United States consume 500,000,000,000 cigarettes regularly. While per capita consumption of tobacco has gone down, cigarette consumption increased per person. It is estimated that roughly 2/3 of the men and 1/3 of the women over 18 smoke.

The smoking bebit usually begins in the early teens. By rade 12, 40 - 55% of all children are found to be smoking according to one start. Another study in American secondary schools indicates that about one of every four boys smokes cigarettes, and one of every eight girls. Boys seem to be heavier smokers and this ratio starts to follow through in adult life. It has been estimated that 60 per cent of American men smoke compared to 30 per cent of American women. Many national, state, and local health arencies consider smoking, particularly among teenagers, to be one of today's most important health problems.

The United States Surgeon General's Report, Smoking and Health, made in 1964 and a report on 1966, confirmed the serious health lisks attributed to smoking. Skilled research personnel have conducted studies that prove smoking, particularly cigarette smoking, is associated with a shortened life expectancy. Cigarette smoking is regarded as an important factor in the development of cancer of the lungs and cancer of the larynx, and is believed to be related cancer of the hiadder, esophagus, and oral cavity. Male cigares smokers have a higher death rate from coronary heart disease than non-smoking males. Cigarette smoking is regarded as one of the most important causes of chronic bronchitis. There is also a relationship between cigarette smoking and pulmonary emphysema.

The majority of physicians and researchers believe these observations to be correct and say, "Don't Smoke! If you don't smoke, don't start." Some competent physicians and research personnel are less sure of the effect of cigarette smoking on health, although their number is dwindling. Nevertheless, they advise: "Be moderate if you must smoke."

The Joint Committee on Health Problems in Education of the National Education Association and the American Medical Association resolved "That schools, physicians, health departments, and other community agencies cooperate in an aggressive program designed to discourage children from starting the smoking habit and to influence youth who are smoking to discontinue the habit."

Individuals should try to reach a solution about their smoking by studying the available evidence, making a rational decision; and acting on it.

Basic Concept:

There is substantial evidence that smoking, particularly cigarette smoking, is harmful to health. Individuals must be aware of an inderstand the health hazards associated with smoking so they can make an intelligent, personal decision on whether to smoke or not to smoke.

Sugar and Pupil Outsomes:

To understand and be ware of the health hazards associated with smoking as they pertain to the individual and society.

2. To be aware of the laws regulating the sale and use of tobacco products.

To gain sufficient understanding about the smoking problem so that an intelligent personal decision can be made on whether to smoke or not to smoke.

To realize the importance of health in leading an active, productive life.

To develop the habit of critically evaluating propaganda and advertisements concerning tobacco products.

CONCEPTS

People smoke or refrain from smoken for a variety of reasons.

Cigarette smoking is ful to the body.

Lung cancer and other chronic diseases are found more frequently among smokers than non-smokers.

Smoking advertisements affect youth in many different ways.

SMOKING

K - 3

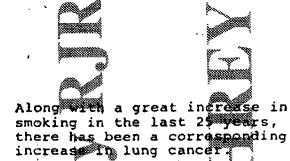
SUGGESTED PUPIL ACTIVITIES

- Consider the reasons parents give for smoking.
- Survey parents on their attitudes concerning smoking.
 - a) do you think smoking is harmful?
 - b) do you approve of young people smoking
 - c) do you think you could stop smoking?
 - d) have you tried to stop smoking?
 - e) do you wish you never started smoking?
- 3. List the advantages and disadvantages of smoking.
- 4. Discussion: Do you have to smoke when you are an adult?
- Discuss the effects of smoking on the body.
 - a) heart rate
 - b) shortness of breath
 - r) appetite
 - d) irritation of the nose and throat
 - e) life-span
- Have a doctor discuss the relationship of lung cancer and other chronic diseases to smoking habits.
- Have pupils explain their feelings and understanding of smoking advertisements.
 - a) relate the benefits of smoking in television ads.
 - b) do advertisements tell one to smoke?

4 ~ 6

CONCEPTS

Smoking is a dangerous habit that is very difficult to change.





Diseases other than lung mancer are found more commonly among cigarette smokers than non-smokers

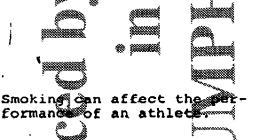


SUGGESTED PUPIL ACTIVITIES

- Survey adults and teenagers reasons as to why they do or do not smoke.
- 2. Explain why the smoking habit is so difficult to break.
- Discuss why young people should not smoke. Consider reasons of health, disease, and cost to the individual and society.
- Survey the opinions of parents, friends, doctors, coaches as to why they approve or disapprove of young people smoking.
- 1. Construct a graph showing the lung cancer death rate of cigarette smokers and non-smokers for the past 25 years.
- 2. Discuss the risk of getting lung cancer after one gives up smoking.
- 3. Make a chart showing the lung cancer cure-rate.
- 4. Compare the risks of pipe, cigar, cigarette smokers and non-smokers in developing lung cancer.
- Write to the American Cancer Society
 asking for information showing the
 relationship of smoking with coronary
 heart disease, emphysema, pulmonary
 bronchitis, and stomach ulcers!
- 2. Class reports and discussion on the above activity.
- . Report on the effects of smoking on:
 - a) appetite
 - b) nervous excitement and relaxation
 - c) shortness of breath
 - d) loss of weight
 - e) heart rate
 - f) body temperature.
- 2. Invite a physician to speak on the effects of tobacco on the body.
- Film: "Huffless, Puffless Dragon."

Cigarette smoking is an expensive habit.





- Estimate the cost of smoking one pack of cigarettes a day for a week, a month, and for a year.
- Emphasize the cost of careless smoking habits result in great loss to timber, wildlife, and recreation areas.
- 3. Discuss the fire hazards that are caused by careless smoking habits.
- Discuss the appeal of smoking advertising and the effect on causing young people to start the smoking habit.
- 2. Explain the use and effectiveness of cigarette filters.
- Bring smoking advertisements to class and evaluate them.
- Invite one of the school's athletic coaches to explain why athletes should not smoke.

The body processes are effected by smoking habits.

Cigarette smoking is causally related to lung cancer in men.

SUGGESTED PUPIL ACTIVITIES

- Discuss the early use of tobacco by the American Indians, the Europeans, and the present-day use of tobacco products.
- Bring in current newspaper and magazine articles discussing the use of tobacco products and its consequences.
- 3. List reasons why people do or do not 's smoke. Are they compelling?
- 4. Have a committee of students conduct a survey of the opinions of parents, friends and coaches, on the use of tobacco by teenagers.
- 5. Survey classes to determine the smoking attitudes and habits of students.
- 6. Filmstrip: "I'll Take The High Road."
- 7. List the benefits derived from smoking.
- 8. Discuss: A) how to refule a cigarette;
 B) how does your smoking effect
 others at a meeting or social
- 9. Buzz session: Should teenagers smoke?

function?

- 10. Report: What do excessive smokers and drinkers have in common?
- 11. Investigate the state laws ragarding the sale and use of tobacco products.
 - View and discuss film: "Tobacco and the Human Body", EBF.
 - Identify and examine the contents of a cigarette.
 - 2. Explain the effects of nicotine on the body.
 - 3. Report on the carcinogens found in the tar residues of cigarette smoke.
 - 4. Chart the incidence of lung cancer found in cigar, pipe, cigarette smokers, and non-smokers.

- Chronic branchitis, pulmanary emphysema cardiovascular disease are found more commonly
- 5. Research and report on the following study: Smoking and Health, by the U.S. Public Health Service.
- 6. Make a poster indicating the brand names of cigarettes, nicotine content, and the effectiveness of brand filters.
- List the types and effectiveness of cigarette filters.
- 8. Have a student relate the experiences in smoking his first cigarette.
- 9. Chart the lung cancer death rate for the past 10 years. Include the following groups: never smoked, less than 1 pack per day; 5-1 pack per day, 1-2 packs per day; 2 or more packs per day.
- Show photomicrographs of cancerous and non-cancerous lung tissue.
- Discuss the treatment of lung cancer patients.
- 12. Explain how tars from cigarettes affect the membrane of the respiratory tract.
- 13. Discuss: Why and how did Congress pass a law requiring cigarette companies to print a warning on each pack of cigarettes.
- Investigate the effect of cigarette smoking on chronic bronchitis, pulmonary emphysema, cardiovascular disease, peptic ulcer, and emphysema.
 - a) compare smokers and non-smokers mortality and morbidity rates.
 - , b) specific effects caused by smoking
 - c) treatment
 - d) prognosis
- 2. Invite an inhalation therapist to discuss his role in treating respiratory diseases. Would be advocate the use of tobacco products?
- 1. Compare the amount of money spent annually in the U.S. for smoking, education, recreation, and welfare, hospitalization.
- Tape radio and television smoking commercials and discuss them in class (type of appeal, age groups).

in cigarette smokers than non-

smokers. 🖠

Smoking seems to be related to a range of diverse psychological behaviors which may be set off by different personal needs.

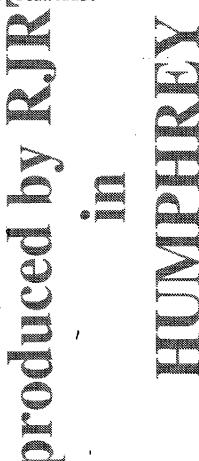
The components of tobacco and its by-reducts are many.

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moking directly affects many of the body functions.

- 1. Develop a questionnaire for a school survey on smoking attitudes and habits. Publish the results in the school paper.
- Interview friends and doctors to find out how and why they started smoking.
- 3. Study advertising propaganda that deals with smoking in an effort to see what the image of a smoker is and how this influences youth and adults to start to smoke.
- 4. Ascertain the effect of family relationships on influencing smoking habits.
- Determine the cultural and sociological influences on the attitudes and habits of smokers.
- 6. Filmstrip: "To Smoke Or Not To Smoke."
- Debate: Cigarette advertising should be banned.
- Debate: Have a group of smokers and non-smokers debate the pro's and con's of smoking.
- 9. Establish reasons for professional athletes being discouraged from participating in digarette advertisements.
- Discuss the unattractive personal characteristics of a smoker.
- 1. Build a smoking machine and collect coal tar and nicotine in a cigarette holder.
- Using the smoking machine, place a goldfish or guppy in the first gallon container, and observe the effects of dissolved nicotine in the water on a living organism.
- Reports by students on the contents of cigarette smoke, and their effect on human tissue.
- 1. Review studies and experiments comparing the physical ability before and after smoking in terms of temperature, pulse, blood pressure, vital capacity and muscular coordination and respiration.

The evidence linking cigarette smoking and lung cancer is very substantial.



The mortality ratio of cigarette smokers over non-smokers is particularly high for a number of other diseases including chronic bronchitis, emphysema, cancer of the larynx, peptic ulcers, and heart and coronary diseases.

- 2. Determine the effects of smoking on exercise and physical fitness.
- 3. Invite a coach to discuss the training habits of athletes.
- 1. Review the trends since 1920 concerning the increase in tobacco consumption.
- 2. Construct a chart showing the increase in morbidity and mortality rates of lung cancer since 1920.
- Discuss the implication of the report made by the U. S. Public Health Service in 1964, Smoking and Health.
- Report on the American Medical Association's stand on smoking.
- Cite legislation requiring cigarette companies to warn the public of the risks in using their products.
- 6. Post magazine articles discussing research that is being conducted relating to the treatment and cure of lung cancer patients.
- 7. View and discuss film: "Is Smoking Worth It?"
- Exhibit smoking posters obtained from the American Cancer Society.
- 9. Filmstrip: "Nature Filter."
- Discuss the effectiveness of cigarette filters.
- 11. Make a poster listing the cigarette brands and their nicotine content (with and without filters).
- 12. Research and discuss: Does smoking more and inhaling deeply increase the odds relating to premature death?
 - Report on the following aspects concerning chronic bronchitis, emphysema, cancer of the larynx, oral cavity, esophagus, peptic ulcers, and heart and dirculatory disease.
 - a) incidence and trends
 - b) effects of cigarette smoking

http://legacy.library.ucsf.ed%/tid/zrq07/a00//pdfw.industrydocuments.ucsf.edu/docs/qtgl0001

SMOKING

RESOURCE MATERIALS

(Preview all materials - Review all films)

- BOOKS -- General :
- American Medical Association, Today's Health Guide Chicago: American Medical Association, 1965
- Brecher, Ruth and Edward, Consumers' Report on Smoking and Public Interest Mount Vernon: Consumers' Union, 1963
- Cain Arthur H., Young People and Smoking New York: John Day Co., 1965
- Callino, Juan J., Living Cancer and Cigarette Smoking
 'New York: Carlton Press, Inc.
- Chester, Eustace, When and How to Quit Smoking New York: Emerson Books, 1964
- Cole: William, What You Should Know About Smoking Stevens Publications, 1961
- Eysenck, H. Smoking, Health and Personality
 New York: Basic Books, Inc., 1965
- Ford, A. S., Tobacco Poisoning and Your Health
 Wew York: Carlton Press, Inc.
- Heise Jack, Painless Way to Stop Smoking
 Des Moines: Meredity, 1963
- James George and Rosenthal, Theodore, Tobacco and Health Springfield, Illinois: Charles C. Thomas, 1962
- Larson, Paul S. and Chers, Tobacco: Experimental and Clinical Studies Haltimore: Williams and Wilkins, 1961
- Madis, George, Smoking, Life and Health Lancaster, Texas: American Book Publishing Co., 1964
- Mallan, Lloyd, It is Safe to Smoke Hawthorne, 1966
- Mills, Clarence A., This Air We Breathe Boston: Christopher, 1962
- Newberger, Maurine B., Smoke Screen: Tobacco and the Public Welfare Englewood Cliffs: Prentice-Hall, 1963
- Ochsner, Alton, Smoking and Your Life New York: Messner, 1964
- Osborn, Robert and Benton, Fred W., Dying To Smoke Boston: Houghton-Mifflin Co., 1964

Philadelphia Smoking Project, Learning to Live Without Cigarettes Philadelphia: Philadelphia Health Department, 1966

Proosdij, Cornelis van, Smoking: Its Influences on the Individual and Its Role in Social Medicine. New York: Harper & Row, 1961

Royal College of Physicians, Smoking and Health
Summary and Report of the Royal College and Physicians of London on Smoking in relation to cancer of the lung and other diseases.

New York: Pitman Publishing Corporation, 1962

Schifferes, Justus J. Healthier Living New York: John Wiley & Sons, 1965

U. S. Surgeon General Advisory Committee, Smoking and Health
Mashington: Report of the Advisory Committee of the Surgeon General
of the U. S. Rublic Health Service. Bulletin No. 1103, 1964.

Wiggers, C. J. and others, Cardiovascular Effects of Nicotine and Smoking New York: Annals of the New York Academy of Science, 1960

FILES - General

The following films may be obtained from the American Cancer Society:

Huffles, Puffless Bragon
Is Smoking Worth It?
Smoking and You
Who Ma?
Breaking the Habit
Time for Decision
Tod Tough To Care



FILMSTRIPS -- General

The Cancer Challenge to Youth - American Cancer Society
To Smoke or Not to Smoke - American Cancer Society
I'll Choose the High Road - American Society
The High Cost of Smoking - American Heart Association
Nature's Filter - National TB Association
Smoking and You - American Heart Association
Cigarettes and Health - National TB Association
Tobacco and Alcohol - Guidance Associates

PERIODICALS

American Journal of Public Health Consumer Reports Journal of the American Medical Association Journal of Health, Physical Education, and Recreation Journal of the National Cancer Institute

CONCEPTUAL GUIDELINES for SCHOOL HEALTH PROGRAMS in PENNSYLVANIA

Program Continuum for Total School Health

BUREAU of GENERAL and ACADEMIC EDUCATION

OVISION of HEALTH, PHYSICAL and CONSERVATION EDUCATION

PENNSYLVANIA DEPARTMENT of EDUCATION

FEBRUARY, 1970

SMOKING

Rationale for Unit:

Until recently tobacco smoking was a practice that one could take or leave without undue concern that it presented any critical risk to one's health or life. Today, physicians and scientists are convinced that the period of uncertainty is over. While research will continue to probe the yet up olved mysteries related to smoking and treatth there is prears to be little reason to doubt that lung cancer is iffectly associated with cigarette smoking; that heart discussed to cigarette smoking share a relationship, and that bronchitis, emphysema and chronic disability can also be traced to cigarette smoking.

Nearly 70 million people in the United States consume 500,000,000,000 cigarettes agularly. While per capita consumation of other forms of tobacco has gone down, organette consumption has increased per person. It is estimated that roughly 2/3 of the acone over 18 smoke.

The smoking habit usually begins in the early teens. By rade 12, 40 - 55% of all children shound to be smoking according to one study. Another study in American accorded schools indicates that about one of every four mass smokes digarettes, and one of every eight girls. Boys seem to be beavier smokers and this ratio seems to follow proper in edult life. It has been estimated that 60 percent of American messages consistent to 30 percent of American messages.

asic Concept:

There is substantial evidence that smoking, particularly parette smoking, is harmful to see in. Individuals must aware about understand the health hazards associated

ացցեւլու Bupil Outcomes:

Examine and evaluate the health hazards associated with phoking as they pertain to the individual and society.

Demonstrate a knowledge of the laws regulating the same duse of tobacco products.

Identify and evaluate the smoking problem so that

agencies consider smoking, particularly among teenagers, to be one of today's most important health problems.

The United States Surgeon General's Report Smoking and Health, made in 1964 and a later report in 1967, confirmed the serious health risks attributed to smoking. Skilled research personnel have conducted studies that prove smoking, particularly digarette smoking, is associated with a shortened life expectancy. The majority of physicians and researchers believe these observations to be correct and support the warning that "If you do smoke, quit." and "If you don't smoke, don't start," There are still some physicians and research personnel who are not completely sure of the effect of digarette smoking on health, although their number is dwindling. Nevertheless, they advise: "Be moderate if you must smoke."

The Joint Committee on Health Problems in Education of the National Education Association and the American Medical Association resolved "That schools, physicians, health departments, and other community agencies cooperate in an aggressive program designed to discourage children from starting the smoking habit and to influence youth who are smoking to discontinue the habit." May this resolution be a challenge to every teacher to assist individuals with every possible resource in reaching a solution about their smoking by studying the available evidence, making a rational decision and acting on it.

with smoking so they can make an intelligent, personal decision on whether to smoke or not to smoke.

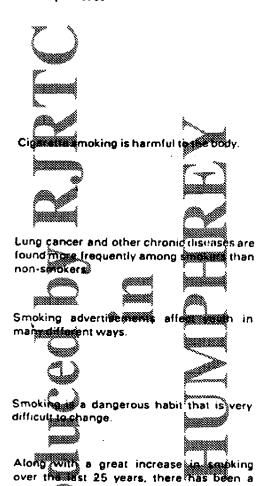
- an intelligent personal decision can be made on whether to smoke or not to smoke.
- Conclude the importance of health in leading an active, productive life.
- Demonstrate ability to evaluate information related to tobacco products.

SMOKING

4 - 6

CONCEPTS

People smoke or refrain from smoking for a variety of reasons.



Diseases other than lung cancer are found more commonly among cigarette smokers than non-smokers

corresponding increase in lung cancer.

Cigarette smoking may affect the individual in ways other than health.

SUGGESTED PUPIL - TEACHER ACTIVITIES

- Examine the reasons people in general give for smoking.
- 2. Survey parents on their attitudes concernings smoking.
 - a) Do you think smoking is harmful?
 - b) Do you approve of young people smoking?
 - c) Do you think you could stop smoking?
 - d) Have you tried to stop smoking?
 - e) Do you wish you never started smoking?
- 3. List the advantages and disadvantages of smoking.
- 4. Identify and examine reasons why young people begin smoking.
- 1. Discuss the effects of smoking on the body.
 - a) heart rate
 - b) shortness of breath
 - c) appetite
 - d) irritation of the nose and throat
 - e) life-span
- Invite a doctor to discuss the relationship of lung cancer and othe chronic diseases to smoking habits.
- Examine the results of continuing research relating smoking to chronic diseases.
- Evaluate with the pupils their feelings and understanding of smoking advertisements.
 - a) Relate the benefits of smoking in television ads.
 - b) Question whether advertisements tell one to smoke.
- Explain why the smoking habit is so difficult to break.
- Discuss why young people should not smoke. Consider reason of health, disease, and cost to the individual and society.
- Construct a graph showing the lung cancer death rate of cigaretti smokers and non-smokers for the past 25 years.
- Examine the risk of getting lung cancer after one gives up smoking.
- 3. Construct a chart showing the lung cancer cure-rate.
- Compare the risks of pipe, cigar, cigarette smokers and nonsmokers in developing lung cancer and other respiratory diseases.
- Write volunteer health agencies requesting information showing the relationship of smoking with coronary heart disease, emphysema, pulmonary bronchitis, and stomachulcers. The teacher should do this to avoid a flood of letters descending upon local agencies.
- Organize small study groups to examine materials from each agency contacted and report to class.
- Investigate the cost of smoking one pack of cigarettes a day for a week, a month, and for a year.

CONCEPTS

Tobacco advertising may be misleading.

Smoling affect the performance of an

athlete.

There is no single explanation for smoking chavior

garette smoking is causally related to ang cancer in men.

SMOKING

4 - 6

SUGGESTED PUPIL - TEACHER ACTIVITIES

- Investigate the cost of careless smoking habits which may result in great loss to timber, wildlife, and recreation areas.
- 3. Discuss how fires are caused by careless smoking habits. . .
- Examine the appeal of smoking advertising and the effect on causing young people to start the smoking habit.
- 2. Discuss the use and effectiveness of cigarette filters.
- 3 Bring smoking advertisements to class and evaluate them.
- Invite one of the school's athletic coaches to explain why athletes should not smoke.
- 2. Display posters of professional athletes endorsing non-smoking.
- Invite varsity athletes, who are and have been non-smokers to discuss the reasons for not smoking.

SMOKING

7.9

- Discuss the early use of tobacco by the American Indians, the Europeans, and the present-day use of tobacco products.
- Bring in current newspapers and magazine articles discussing the use of tobacco products and its consequences.
- List reasons why people (teenagers in particular) do or do not smoke. List the benefits derived from smoking. Compare.
- Have a committee of students conduct a survey of the opinions of parents, friends and coaches, on the use of tobacco by teenagers.
- Survey classes to determine the smoking attitudes and habits of students.
- 6. Present appropriate film or filmstrip as introduction or summary.
- 7. Discuss:
 - a) how to refuse a cigarette
 - b) how smoking affect others at a meeting or social function
- Investigate the state laws regarding the sale and use of tobacco products.
- Investigate a possible linkage between the use of tobacco, alcohol and drugs.
- 1. Identify and examine the contents of a cigarette.
- 2. Examine the effects of nicotine on the body.
- Investigate the carcinogens found in the tar rasidues of cigarette smoke.
- Chart the incidence of lung cancer found in cigar, pipe, cigarette smokers, and non-smokers.
- Conduct research and make reports or examine by discussion panel the Surgeon General's report of 1964 and 1967 and/or related literature printed subsequently.

SMOKING

7 - 9

CONCEPTS

Characteronchitis, pulmonary craphysema, cardiovascular disease are favored more commonly in cigarette smokers than nonsmokers. Millions of dollars are spent annually to influence the smoking habits of the public.

Smokia: mems to be related to a range of diverse may chological behaviors which may be set off by different personal needs.

SUGGESTED PUPIL - TEACHER ACTIVITIES

- Construct a chart indicating the brand names of cigarettes nicotine content, and the effectiveness of brand filters.
- 7. List the types and effectiveness of cigarette filters.
- 8. Chart the lung cancer death rate for the past 10 years. Include a the following groups: never smoked, less than 1 pack per day. %-1 pack per day, 1-2 packs per day; 2 or more packs per day.
- Obtain and show photomicrographs of cancerous and non-cancerous lung tissue.
- 10. Discuss the treatments for lung cancer patients.
- Investigate how tars from cigarettes affect the membrane of the respiratory tract.
- 12. Discuss: Why and how did Congress pass a law requiring cigaretticompanies to print a warning on each pack of cigarettes?
- Investigate the effect of cigarette smoking on chronic bronchius pulmonary emphysema, cardiovascular disease, peptic ulcer, and emphysema.
 - a) compare smokers and non-smokers mortality and morbiditrates.
 - b) specific effects caused by smoking
 - c) treatment
 - d) prognosis
- Invite an inhalation therapist to discuss his role in treating respiratory diseases. Discuss the use of tobacco products as seen through his experiences.
- Compare the amount of money spent annually in the U. S. for smoking, education, recreation, welfare and hospitalization.
- Tape radio and television smoking commercials and discuss them
 in class (type of appeal, age groups).

SMOKING

10 - 12

- 1. Develop a questionnaire for a school survey on smoking attitudes and habits. Publish the results in the school paper.
- Interview friends and doctors to find out how and why they started smoking
- Study advertising propaganda that deals with smoking in an effort to see what the image of a smoker is and how this influences youth and adults to start to smoke.
- Ascertain the effect of family relationships on influencing smoking habits.
- 5. Determine the cultural and sociological influences on the attitudes and habits of smokers.
- 6. Utilize appropriate film or filmstrip.
- Debate: "Should cigarette advertising be banned?"

SMOKI

10 - 12

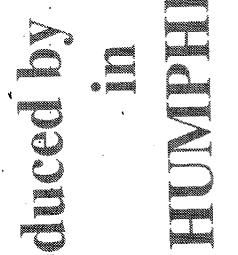
CONCEPT



Smalling stirectly affects many of the body functions.



The evidence linking cigarette smoking and ung partier is very substantial.



morphism ratio of cigarette smokers in non-appacers is particularly high for diseases of chronic bronchitis, physerim cancer of the larynx, peptic ers, and that and coronary diseases.

oking is an expensive as well as a gerous habit.

SUGGESTED PUPIL - TEACHER ACTIVITIES

- 8. Debate: "The pro's and con's of smoking." (Suggest, if possible, the panel be made up of smokers and non-amokers.)
- Evaluate reasons for professional athletes being discouraged from participating in cigarette advertisements.
- 10. Discuss the unattractive personal characteristics of a smoker.

 Contrast these with attractive characteristics.
- 1. Investigate through discussion or reports the contents of cigarette smoke, and its effect; whuman tissue.
- Review studies and experiments comparing the physical ability before and after smoking in terms of temperature, pulse, blood pressure, vital capacity and muscular coordination and respiration.
- 3. Investigate the effects of smoking on exercise and physical fitness.
- Review the trends since 1920 concerning the increase in tobacco consumption.
- Construct a chart showing the increase in morbidity and mortality rates of lung cancer since 1920.
- Discuss the implication of the Surgeon General's Reports of 1964 and 1967.
- 4. Report on the American Medical Association's position on smoking and health.
- 5. Cite legislation requiring cigarette companies to warn the public of the risks in using their products. Investigate cases of suits brought against tobacco companies by smokers.
- 6. Post magazine articles discussing research that is being conducted relating to the treatment and cure of lung cancer patients.
- Exhibit smoking posters obtained from the American Cancer Society.
- B. Research and discuss: "Does smoking more and inhaling deeply increase the odds relating to premature death?"
- Report on the following aspects concerning chronic bronchitis, i emphysema, cancer of the larynx, oral cavity, esophagus, peptic tilcer, and heart and circulatory disease.
 - a) incidence and trends
 - b) effects of cigarette smoking
 - c) prognosis
 - d) recovery statistics
 - e) research
 - f) detection
- 2. Present appropriate film or filmstrip.
- Review the amount of money one could save by not smoking a pack of cigarettes a day for one year, five years, until retirement
- Review the cost of treatment and rehabilitation of those with diseases related to smoking.

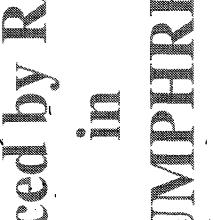
SMOKING

10 - 12

CONCEPTS

Many states have laws and regulations conserning the sale of tobacco products.

Guidelines are now available to help those who desire to give up the smoking habit.



The reasons for smoking are considered to be larger psychological and school


Mounting evidence from various sources indicate that smoking contributes to mortality from certain specific diseases and to the overall death rate.

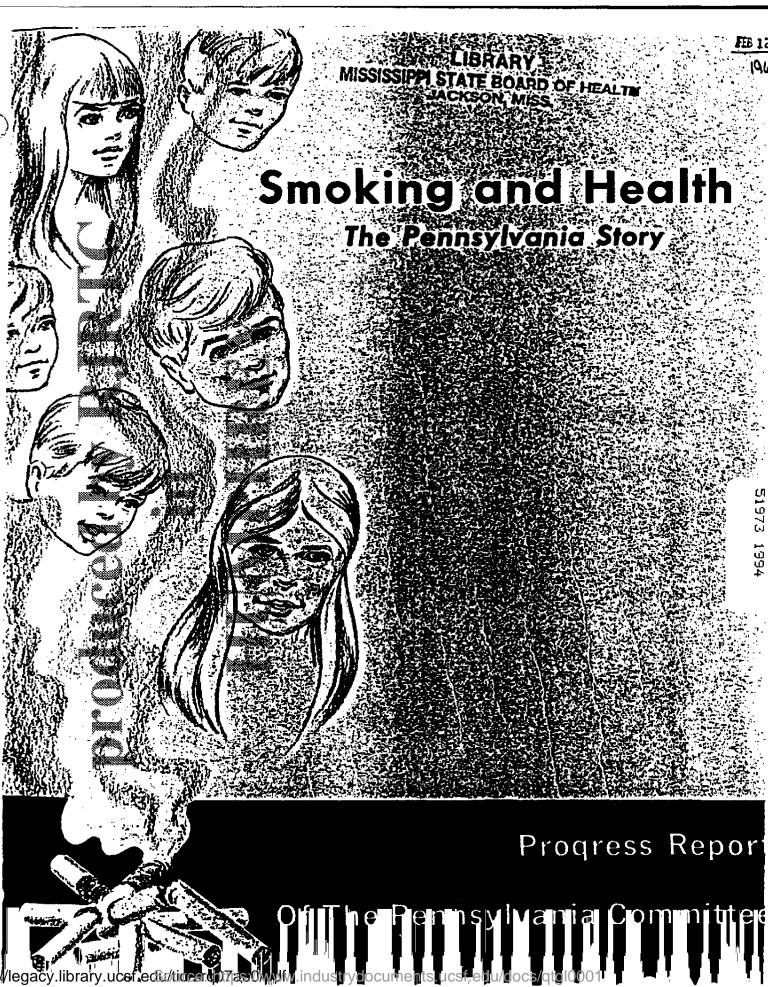
SUGGESTED PUPIL - TEACHER ACTIVITIES

- Review the costs imposed on society by careless smoking habits.
- Discuss the effectiveness and enforcement of Pennsylvania laws covering the sale and use of tobacco.
- 2. Buzz session: Are school smoking regulations necessary? Are they enforced? If not, why not?
- Debate: Cigarette taxes should be used for Health and Smoking Education.
- 4. Discuss how advisable are school smoking rooms.
- Ask an enthusiastic ex-smoker to talk with the class or students i and answer questions on his experiences while attempting to end the smoking habit.
- Discuss the value of chemicals and/or anti-smoking products in developing an aversion to smoking.
- 3. Investigate the development of a safe cigarette.
- Have a member of a local withdrawal clinic speak to students on learning to live without cigarettes.
- 5. Describe individual and group withdrawal techniques.
 - a) avoid smoking situations
 - b) substitutes for smoking
- Investigate an individual's need for the oral stimulation provided a by a cigarette, pipe or cigar.

SMOKING

GRADE 13

- Discuss and evaluate the reasons given for smoking.
- Discuss the beneficial effects of smoking in the area pf mental health.
- 3. Consider the case of total abstension.
- 4. List the factors influencing smoking habits.
- 5. Discuss the reasons given for being a non-smoker.
- 6. Discuss how a smoker may affect others around him?
- 7. Debate: Group of smokers and non-smokers debate the pro's and con's of smoking.
- Review the stand of the American Medical Association concerning smoking and health.
- Review and discuss the reports of the Surgeon General's Office. 1964-67
- Summarize the findings of the Royal College of Physicians, of London on the effects of smoking and health.
- 4. Investigate the American Cancer Society's Research Program in the field of smoking and health.
- Examine the recuperative powers of the body and its tissues of persons who stop smoking.



COMMONWEALTH OF PENNSYLVANIA



DEPARTMENT OF HEALTH

THOMAS W. GEORGES, JR., M.D. SECRETARY OF HEALTH

P. O. BOX 10

HARRISSURG 17120

August 25, 1969



Dear Fellow Health Worker:

The Principle on Smoking and the Health

of Youth is pleased to provide you with the 1969 Progress Report

of The Peansylvania Story on Smoking and Health.

Sincerely,

Charles L. Leedhem, M.D., Director Bureau of Educational Activities

Chairman, Pennsylvania Committee on Smoking and the Health of Youth

SMOKING AND HEALTH The Pennsylvania Story

PROGRESS REPORT

OF THE PENNSYLVANIA COMMITTEE

ON SMOKING AND THE HEALTH OF YOUTH

APRIL 1969

FOREWORD

The Pennsylvania Committee on Smoking and the Health of Youth was organized January 4, 1963. Its purpose is:

- 1. To give leadership and coordination to an aggressive state-wide and year-remain ampaign on the effects of smoking on health.
- 2. To establish procedures through which young people can be given accurate information about cigarette smoking and its hazards.
- 3. To provide this information also to individuals who work with and withfluence young people.

It was in that this Committee would be formed because of the mounting evidence correlating the ill-effects of cigarette smoking and personal health over the past 10-15 years.

There have been many and varied activities in the area of smoking and health in Pennsylvania since the formation of this Committee. The following pages will highlight some of the significant activities which have been undertaken.

CHARLES L. LEEDRAM, M.D. Chairman

Pennsylvania Committee on Smoking and Health of Youth

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MEMBER AGENCIES

OF

THE PENNSYLVANIA COMMITTEE ON RMOKING AND THE HEALTH OF YOUTH

American Cancer Society-Pennsylvania Division

Future Homemakers of America-Pennsylvania Division

Sovernor's Council for Human Services

Penus Vivania Congress of Parents and Teachers

Pennsylvania Department of Health

Pennsylvania Department of Public Instruction

Pennsylvania Division of 4-H Clubs

Pennsylvania Health Council, Inc.

Pennsylvania Heart Association

Pennsylvania Medical Society

Penusylvania Nurses Association

Pennsylvania State Association for Health, Physical Education and Recreation

Pennsylvania State Education Association

Pennsylvania Tuberculosis and Health Society

Young Women's Christian Association

INTRODUCTION

Instruction on the effects of tobacco on the human system has been encouraged in Pennsylvania schools for many years. However, little attention was paid to this subject until the recent mass of evidence correlating the ill-effects of cigarette smoking and personal health was made known, and the Pennsylvania Committee on Smoking and the Health of Youth was formed, in January, 1963.

The Pennsylvania Division of the American Cancer Society and the Pennsylvania Tuberculoss and Health Society had been carrying on an active anti-smoking program for a number of years prior to the formation of the Committee, and in March, 1961, the Pennsylvania Heart Association joined ranks with these two agencies to issue a joint statement which called the smoking problem "to the attention of the public, and particularly to urge parents, teachers, physicians, and others in a position to guide youth, to inform them about the effects of smoking before their habit patterns are established."

These three agencies prevailed upon the Pennsylvania Department of Health to conduct a state consider the health hazards of smoking and to explore the possibility of initiating a united educational program on this subject.

Such action was taken and a very successful two-day workshop meeting was held on September 27 and 28, 1962, in Harrisburg, entitled "Conference on Smoking and The Health of Youth." This Conference was spontored by the Pennsylvania Department of Health, Pennsylvania Department of Public Instruction Pennsylvania Medical Society, Pennsylvania Division of the American Cancer Society, Pennsylvania Heart Association, and the Pennsylvania Tuberculosis and Health Society About 250 people strended, including a number of health and school authorities, and a number of leaders of the number agencies. However, the majority were representatives of student bodies of the various high schools throughout the state.

The conference participants unanimously agreed that every student in the high school and pre-high school levels should be informed of the dangers and problems of smoking, and that a coordinated educational program should be developed in Pennsylvania.

Rellowing the conference, at the suggestion of the Pennsylvania Tuberculosis and Health Society the Pennsylvania Department of Health and the Pennsylvania Department of Public Instructions combined forces to the Pennsylvania Committee on Smoking and the Health of Youth provide "leadership and coordination to an aggressive state-wide and year-round campaign continue of the pennsylvania Committee on Smoking on health."

Since the formation of the Committee, there has been an "explosion of interest." However, the smoking habit is deeply rooted in our society, and its complexity is compounded by social, psychological, economic, and moral factors which prohibit any speedy solution.

The committee has, from the beginning, recognized the enormity and complexity of the problem. It is not attempting to develop any spectacular short-terms projects for quick gains; but rathe programming with a goal for long-lasting and meaningful effects. It is working on the assumption that "in union there is strength" and that if all of the forces of the interested agencies are brought together in a coordinated and continuing program, the tide of smoking—particularly among young people—will eventually be stemmed. Thus, the following basic concepts were soon determined:

- 1. That an on-going program was definitely in order and vigorous prosecution of such a program be urged.
- 2. That such a program should be designed and aimed specifically at the pre-high school teener. (As the Committee progressed in its efforts, it decided that the program should be aimed primarily at the elementary child.)

- 3. That data on smoking and the health of youth should be established as a permanent part of the curriculum of the schools of the State.
- 4. That the project was basically one for the school authorities to carry out,
- 5. That the Health Department and the voluntary agencies could best lend their support on a professional level by supplying data, material, and effort to further the project.

Following is the Committee's statement of philosophy which was adopted during an early meeting. This statement is prominently displayed on the back cover of packets of resource materials think have been distributed to key personnel in the schools and community:

"Americans have been smoking since Indians gathered around fires for peace conferences and state and state around fires for peace conferences are also around fires for peace conferences and state around fires for peace conferences are also around fires for peace conferences are also around fires for peace conferences are also around fires for peace conferences are also around fires for peace conferences.

Tobacco consumption has been steadily increasing during the past 20 years, particularly among young people, who are smoking earlier and more heavily.

Because of concers about the serious diseases associated with heavy cigarette smoking and the growing numbers of smokers among teenagers and pre-teenagers, Dr. Charles L. Wilbar, Jr., then Secretary of Health, and Dr. Charles H. Boehm, then Superintendent of Public Instruction, unnearly statement saying. It is now time to muster available resources for an all-out educational program on smoking.' Toward that end, they appointed a steering committee of medical men, educators, civic leaders, representatives of youth groups, official and voluntary health organizations.

The steering committee identified their work as follows: to establish procedures through which young people can be given accurate information about cigarette smoking and its hazards; the matter also to individuals who work with and influence young people.

"A packet of material for use in school assemblies, in the classroom, and in science projects of demonstration—has been provided for the curriculum centers. Teachers may obtain resource aids, such as literature, films from local and regional health units and from the local carter, tuberculosis, and heart offices. Guidelines for regional student forums also have been prepared. It is the Committee's hope that regional steering committees will be created to assist with these forums.

These procedures, materials, and interested persons working with young people, can bring the important facts regarding rigarette smoking and its relationship to health to the attention of students in an interesting and meaningful manner in order that they may decide for themselves whether or not to health or to continue smoking."

- Thus, it can be clearly seen that the Committee is diligently striving to carry out its purpose:

 21. To give leadership and coordination to an aggressive state-wide and year-round campaign on the effects of smoking on health.
- To establish procedures through which young people can be given accurate information out cigarette smoking and its hazards.
- 3. To provide this information also to individuals who work with and influence young people.

ACCOMPLISHMENTS

The few short years in which the Committee has been functioning have been fruitful indeed. A number of programs and ideas have been established which go a long way towards the fulfillment of the threefold purpose of the Committee. These include:

- 1. Stimulation of local programs.
- 2. Distribution of educational materials.

- 8. Publication of a teachers' resource unit.
- 4. Promotion of numerous meetings, conferences, and seminars.
- 5. Development of educational television programs.
- 6. Institution of an accelerated instruction program in Pennsylvania schools.
- 7. Establishment of Education Week On Smoking And Health.
- & Establishment of full-time staff for the Committee.
 - Stimulation of two research projects.
- 10., Initiation of a project proposal to provide self-instruction courses for teachers.

The Committee is firmly convinced that its united approach is best to combat this public health problem. It has not only resulted in the various coordinated activities indicated in this report, but has undoubtedly stimulated many independent programs by the various agencies which night not otherwise have been conducted.

As evidence of the "high level" backing of the Committee's program, the Secretary of Health and the Acting Superintendent of Public Instruction sent a letter on March 25, 1965, to all chief sent administrators to "reaffirm the continued interest and increasing support of both the Department of Public Instruction and the Department of Health in their efforts in this on-going program." They also require the continued support and interest of the chief school administrators in this programs.

1. FINULATION OF POSAL PROGRAMS

All agencies represented on the State Committee urge their local counterparts to coordinate with other local agencies. Local workers are requested to take initiative whenever necessary to simplified local action or in acceptante when someone else from another agency does the initiating.

The State Committee stresses the importance of involving county superintendents and other chief school administrator as well as all interested voluntary and official agency personnel in the planning, conducting and evaluating of local activities. Specific steps which have been suggested and which have actually been developed in many areas include:

- a. Formation of local councils with representation from counterpart agencies of the State Committee and of the state committee an
- h Meetings of chief administrators and the supervisory, administrative, and all healthoriented professional employees in each school system.
 - in-service education meetings with teachers.
- Development of evaluative procedures to determine which methods of instruction seem to produce the best results.
- e. College conferences on smoking for future teachers.
- f. Implementation of surveys among elementary and secondary students to ascertain smoking status of students.

On April 15, 1965, a questionnaire was distributed to agency representatives in the 67 counties of Pennsylvania. Fifty-six counties responded, indicating that there were seven counties with organized committees or councils on smoking and health with similar local representation as on the State Committee; and that in 39 counties many of the local agencies were working together informally on smoking and health programs. Only 10 of the 56 counties answering the questionnaire reported that there was no local coordination.

The agencies most frequently mentioned that are working together include: county, city, or regional health departments; county or district schools; units of the Penusylvania Division of the American Cancer Society; affiliates of the Penusylvania Tuberculosis and Health Society; chapters of the Penusylvania Heart Association; county medical societies; county or individual school PTAs; local YMCAs; county nurses associations; county or regional health councils, and Future Homemakers of America.

Many other agencies were listed by at least one or two counties. These include: church groups, Scolleges, hospitals, libraries, pharmacy councils, youth groups, and the Association for Crippled Children and Adults.

The type of coordinated programs most frequently mentioned at the local level includes: mentings with school administrators; meetings with teachers; meetings with students; distribution of educational material; provision of films and filmstrips to schools; school assembly programs; PTA programs; and the preparation of resource kits or units for teachers. All of these activities were also promoted to a large extent independently by the local cancer, tuberculosis, and heart organizations.

Other activities include: school press project; poster project; assistance with classroom instruction; meetings with attached nurses; essay contest; health fair; smoking crossword puzzle contest; and programs for college, library, hospital, girls' club, and 4H groups.

Forty-six of the 55 caunties that replied to the questionnaire indicated that the State Committee's actions have helped to develop their local programs; two more stated that they were not sure. Forty-eight indicated that there was a noticeable increase in the demand for services and programs on smoking and health during the past two years.

To date, ill sounty cauncils on smoking and health have been organized by the Smoking and Health Project Goordinator or regional public health educators of the Pennsylvania Department of Health and representatives of the local voluntary agencies. These councils are located in Cambria, Clearfield, Crawford Tayette, Lycoming, McKean, Philadelphia, Washington, Westmoreland, Wyoming, and York Counties. They are employing their ideas and resources in a campaign to currently smoking in their respective areas. Efforts by the Pennsylvania Committee are currently being extended toward organizing additional county councils.

2. DISTRIBUTION OF EDUCATIONAL MATERIALS

Sample Packets One of the first acts of the Committee was to prepare 2,500 sample packets titled "information on Smoking and the Health of Youth for School Programming" to indicate the kind of materials that are available to teachers and students from local agencies—primarily from caucer, tuberculosis, and heart associations. These proved to be so helpful that 2,500 more packets were assembled a few months later. Since then 5,000 in 1965 and 6,000 in 1966 were prepared with up-to-date material and distributed to teachers and other key persons throughout the state.

The materials selected were in two main categories:

Student Handouts

These are brochures available in quantity. Each can be used as a basis for discussion in small groups and can be taken home to provide some influence in developing family philosophy.

2. Teacher Resource and Student Research

Material outlining the historical background of the problem was included in a packet along with articles which provide the teacher with information concerning the psychological as well as the physiological aspects of smoking. Also included was a Teachers' Resource Unit which was developed by the Committee and published by the Pennsylvania Department of Public Instruction.

No material was purposely selected that would tend to be negative or cause undue alarm, but rather an array of statistics which, when well presented, would provide a solid, factual foundation upon which the students could make a rational decision concerning the use of tobacco.

In 1967 the Committee decided that the packets of material had served their purpose, and concentrated on preparing a revised Teachers' Resource Unit for distribution in place of the packets with the understanding that the various agencies will continue to keep the school personnel informed of the material they have to offer.

Publication of Teachers' Resource Unit—The Committee developed a Resource Unit for teachers which was published by the Pennsylvania Department of Public Instruction in 1964. The Unit identified key problems, suggested learning activities, and listed a number of thought-providing questions which might be considered in classroom discussions. Five thousand copies of the Unit were printed initially. These were exhausted and a second up-to-date edition 15,000 copies) of the Unit was printed, in August, 1965.

In 1967, the Pennsylvana committee decided to extensively revise the Resource Unit on Smoking and Health. The new Unit presented discussions on the history of tobacco and smoking, the epidemiological evidence indecting smoking as a cause of diseases, the physiological and sociopsychological aspects of smoking, organization of a school program to combat cigarette smoking, imprementation of a program against smoking with suggested techniques and activities that may be utilized, as well as sources of information, materials and services. Thirty thousand copies of the last were published in the program against smoking with have already been distributed to selected elementary and scondary teachers throughout the Commonwealth.

- c. Audio-Visual Aids—As an adjunct to the printed material, the Committee screened and selected appropriate audio-visual material including films, filmstrips and exhibits as important partners in telling the full story. The Committee is confident that, if properly used, the suggested aids will a long way in helping students reach a mature decision.
- Health Warning Label Materials—To bring public attention to the health warning label required on every cigarette package by the Federal government as of January 1, 1966, 5,000 easel-back poster. 12", and 55,000 pamphlets titled, "There's One On Every Pack" were developed by the Department of Health. These were distributed from the Department's seven regional offices and from Harrisburg to agencies and organizations throughout the state when he concerned with health, and work with young people; to pharmacists; public transportation terminals; schools; supermarkets; public buildings, etc. The supply was completely exhausted. Permission to reproduce the posters for use in Maine was requested by the Maine Interagency Council on Smoking and Health. This was result of the poster being distributed nationally by the National Clearinghouse on Smoking and Health. Public Health Service.

3. PROMOTION OF MEETINGS, CONFERENCES, SEMINARS

a. Regional Meetings

Nine regional meetings were held during the spring of 1963, primarily for chief school administrators. Many representatives from local voluntary agencies and health departments also attended. These were conducted in cooperation with nine area curriculum centers of the Pennsylvania Department of Public Instruction, which are located in state colleges. All 14 of the curriculum centers at that time and their affiliated state colleges were invited to participate. The proposed state program on smoking and health and the organization of the State Committee was presented during these meetings and packets of educational materials were distributed.

b. College Conferences on Smoking

During the 1964-65 school year, four one-day seminars were conducted in teacher training institutions. Two, one in the eastern section and one in the western section of the state, were devised for selected students and faculty from all of the institutions in each of these areas. The other two were held only for the institutions serving as the hosts for the seminars.

Approximately 2,300 students at the teacher-training institutions in Pennsylvania were reached with medical and psychological facts on smoking and health through six smoking and health minars held during the 1965-66 school year. These seminars were held at East Stroudsburg State College, where 303 students attended; Millersville State College, 456 students; Bloomsburg State lege, 700; Slippery Rock State College, 400; California State College, 222; and Villa Maria College, 230.

Over 100 students from area junior and senior high schools attended the seminar at Bloomsburg State College, and one of the schools, Danville Junior-Senior High School, held an assembly program for the entire student body two months later, utilizing the seminar speaker on the psychological aspects of smoking.

During 1966-67, smoking and health seminars were conducted at nine Pennsylvania institutions thigher learning. Participating host-colleges were Gettysburg College, Lock Haven State College, Lycoming Callege, Allegheny College, Ursinus College, Wilkes College, Messiah College, Clarion State College and Indiana University of Pennsylvania.

During 1967-68, 12 additional smoking and health conferences were conducted at 11 colleges in Fennsylvania. Cherine Cate College, Thiel College, Shippensburg State College (two conferences), West Cheste State College, Millersville State College, Bloomsburg State College, East Stroudsmann State College, Kutztown State College, California State College, Eastern Baptist College and Villa Maria College. Approximately 2,800 students attended these conferences.

During 1968-69, the Pennsylvania Committee began to emphasize reaching junior and especially senior education students as much as possible, because these were the ones who would soon be teaching. As a result of this new emphasis, the majority of the smoking conferences during this period were designed to specifically reach the senior education student. The institutions of higher learning at which nine smoking conferences were conducted included the following: Clarion State College (two conferences), College Misericordia, Wilkes College, St. Francis College, Geneva College, Grove City College, Westminster College and Slippery Rock State College.

Authoritative speakers who covered the medical aspects of smoking at these confermes included Wilbur Flannery, M.D., Past President of the Pennsylvania Medical Society; Oscar Perbach, M.D., Senior Medical Investigator, Veterans Administration Hospital, East Orange, New Jersey; Ernest L. Abernathy, M.D., Pathologist and Director of Laboratories, the Washington Hospital, Washington, Pennsylvania; and Jasper G. ChenSee, M.D., Pathologist and Director, Quality Control Laboratories, Reading, Pennsylvania. Donald Bashore, Associate Professor of Psymbology at Bloomsburg State College, discussed the sociopsychological aspects of smoking at all of these conferences. Depending on the particular circumstances at each college, sometimes, in addition to the two major presentations, other activities such as role playing, panel discussion, group discussion, questions and answers, filmstrip, and films were utilized. At each conference, either the project coordinator for the Pennsylvania Committee or a public health educator from the Pennsylvania Department of Health described the objectives of the conference and the role of the Pennsylvania Committee in conducting the conference.

Currently the Committee is planing to continue its smoking conferences at institutions of higher learning during the 1969-70 school year.

c. Second Pennsylvania Conference on Smoking

The Committee was concerned with all adults who deal with children and who might be in a position to offer instruction, advice, and/or stimulation. Thus, in co-sponsorship with the U.S. Public Health Service, it conducted a Second Pennsylvania Conference on Smoking and Health in the Hershey Hotel, Hershey, Pennsylvania, on October 18, 1965, for teachers, administrators, nurses, and other interested personnel from schools and colleges; youth leaders from community organizations; and health workers from official and voluntary health agencies. The purpose was to consider how teachers and leaders of youth can effectively influence young people to develop favorable attitudes and actions in relation to smoking and health, and to discuss the latest information on this subject. Speakers on the program included Emerson Foote, then Chairman of the National Interagency Council on Smoking and Health; Dr. Bernard Mausner, Professor of Psychology, Beaver On Stanley C. Beckerman, Director, Division of Cancer Control, Department of Health and Welfare, Maine; Dr. Joseph C. McLain, Principal, Marmaroneck High School; William A. Allen Director of Health Education, Philadelphia Department of Health; William A. Fackler, then Supervisor, Philadelphia Smoking and Health Research Project; William E. Graffius, then Executive Director, Pennsylvania Health Council; Dr. Clarence A. Tinsman, then Director, Division of Chrome Diseases, Pennsylvania Department of Health; and Dr. Charles L. Leedham, Director, Bureau of Educational Activities, Pennsylvania Department of Health.

Popics presented in the one-day Conference included: "Cigarette Smoking and Advertising"; "Psychological and Social Fectors in the Control of Smoking"; "Smoking Education Program in the State of Maine"; "Authors of Students Toward Cigarette Smoking Can Be Altered—The Marmaroneck High School Program"; "Don't Overlook Parents—Philadelphia Smoking and Health Research Project"; "Don't Gverlook Your Resources"; and "Audio-Visual Aids and Their Uses."

A summarization of an evaluation questionnaire completed by all conference participants and conference proceedings have been compiled and sent to all persons who attended the conference, and to schools of public health proughout the country, state health departments, and interagency completes on smoking and health.

The evaluation revealed that 81 per cent of the conference participants felt the conference met their expectations of that they wanted to learn. Ninety-one per cent said they are using, or expect to use, the information and material they receive at this conference. Seventy-one per cent felt regional conferences on smoking and health would be of value in their areas.

Governor William Scranton for the week of October 17-23, 1965. Other activities which were conducted throughout the state in observance of this week included radio and television programs, school assembly programs, weath forums, exhibits, distribution of educational materials in pharmacian chool press promotion, and special emphasis on smoking in classrooms.

d. Special Sessions at Annual Health Conferences

Smoking and health was the focus of a two-hour special session presented during the 14th Annual Health Conference held at Pennsylvania State University, August 15-19, 1965. Smoking and main activities in Pennsylvania were reviewed with particular regard to the Smoking Study in Pittsburgh Public Schools, the Smoking Education Survey in Pennsylvania elementary and secondary schools, the Reading Smoking Clinics Project, and the Philadelphia Smoking Project.

At the Fifteenth Annual Health Conference conducted at Pennsylvania State University, August 7-11, 1966, one of the special sessions was on smoking and health. John W. Crail of Louisville, Ohio, discussed a study he made of grade school students in Stark County, Ohio, and concluded that smoking efforts must be designed to reach students at the lower elementary level. Also, at this session, Sylvia K. Bohlayer, M.P.H., Chief of the Media Section, Division of Public Health Education, Pennsylvania Department of Health, discussed the smoking and health activities that were then being implemented in Pennsylvania, while Harold S. Diehl, M.D., then Vice President for Research and Medical Affairs, American Cancer Society, discussed smoking and health at the national level.

During the Sixteenth Annual Health Conference conducted at Pennsylvania State University, August 13-17, 1967, smoking and health was again discussed during one of the special sessions. Roy Davis, Chief of the Community Program Development Section of the National Clearinghouse for Smoking and Health, described different community and school programs; Charles A. Ross, M.D., Chief, Department of Thoracic Surgery at the Roswell Park Memorial Institute in Buffalo, New York, explained various developments on smoking and health; while Donald R. Bashore, Associate Professor of Psychology, Bloomsburg State College, discussed the psychology of the smoker.

e. National Interagency Council Smoking and Health Conference

The Pennsylvania Committee on Smoking and the Health of Youth was invited to attend the National Interagency Council Smoking and Health Conference held at the University of Maryland on May 1-3, 1966. Four Committee members represented the state of Pennsylvania. Many requests, ideas, methods, and materials concerning smoking and health were submitted to the Pennsylvania representatives by other persons and organizations attending the Conference.

Teachers' Workshops on Smoking

During the early part of 1968, the Pennsylvania Department of Public Instruction conducted six teachers' workshops on smoking at Millersville State College, California State College, Windber Aren High School, Wakes College, Edinboro State College and Mansfield State College. The principal speaker at these workshops was Stephen R. Homel, M.D., pediatrician from Bala-Cynwyd, Pennsylvania who attempted to encourage the teachers to perceive their students as whole persons and to reach their students as whole persons. Representatives from the Pennsylvania Department of Instruction moderated the workshops, while representatives from the Pennsylvania Reart American Cancer Society discussed what assistance and material aids the voluntary associations could effectively provide for teachers. Approximately 400 current teachers attended these workshops.

Leadership Development Program on Smoking and Health

On October 10-12, 1968, at the Holiday Inn Town, Harrisburg, the Eastern District Leadership Development Conference on Smoking and Health Education was conducted by the American Association for Health, Parket Education and Recreation, the Pennsylvania Department of Public Instruction and the Pennsylvania Committee on Smoking and Health. Over 160 representatives from 12 states and the District of Columbia attended this conference. Pennsylvania conducted its statewide Leadership Development Program on Smoking and Health in conjunction with the Eastern Leadership Development Program. Combining both conferences eliminated much duplication of affort and expenses for both the American Association for Health, Physical Education and Recreation and the Pennsylvania participants, and a comprehensive interaction was accomplished. Approximately 80 of the delegates at this conference were from Pennsylvania.

Major speakers at this conference included Oscar Auerbach, M.D., Senior Medical Investigator, Veterans Administration Hospital, East Orange, New Jersey, who reported on current smoking research; Godfrey M. Hochbaum, Ph.D., of the U. S. Public Health Service, who discussed the behavioral aspects of smoking; Stephen R. Homel, M.D., Bala-Cynwyd pediatrician, who covered the practical applications of behavioral research by utilizing inductive-conceptual group dynamics techniques; and Roy L. Davis of the National Clearinghouse for Smoking and Health, who spoke on the national picture of the smoking and health situation.

During one of the sessions, a symposium covered the various types of community action programs that were then being conducted. The participants were: Myer Herman, M.D., Massachusetts Department of Health (Interagency Council); Robert Yoho, Ph.D., Health Chairman, National Council of Parents and Teachers (Parent-Teachers Association); Dr. Herbert Jones, University of

Maryland (schools); Charles L. Leedham, M.D., Chairman, The Pennsylvania Committee (youth organizations other than schools); and Robert Conn, District of Columbia's Department of Public Health (Public Health). After the symposium, the conference participants divided up into five groups (schools, voluntary agencies, state education departments, PTA, and state public health) to discuss action plans currently being implemented by individuals within the groups. That evening, the states met together to see a play, "Leave It To Laurie," acted by students from Central Bauphin High School. The play depicted the pressures that young people face in deciding to smoke or not so smoke.

Each of the 16 Pennsylvania leadership teams from the Department of Public Instruction's Educational Development Centers attending the state conference were expected to return to their respective regions, form a steering committee and select dates and sites for local leadership development conferences. Planning for the local conferences has already been initiated in five areas. These conferences will be designed for local teachers, school administrators, voluntary agency personnel, parents, and other interested persons in order to stimulate a high degree of interdisciplinary and interagency cooperation in the implementation of local programs in smoking and health education.

DEVELOPMENT OF EDUCATIONAL TELEVISION PROGRAMS

A series of television programs has been developed to inform teachers, pupils, parents, and other adults about the new information concerning the smoking of tobacco and its effects on health. It was a joint effort of the Pennsylvania Department of Health, the Pennsylvania Department of Public Instruction, the College of Health and Physical Education of the Pennsylvania State University and the University's Continuing Education Services—Division of Broadcasting, and the Allegheny Educational Television Council. The Pennsylvania Committee on Smoking and the Health of Youth played an amportant role in the concept of the project and served in an advisor, role in its development and completion.

These programs (four \$30 minutes each) inform instructors of children such as school teachers, scouting leaders, YMCA-YWCA advisors and church teachers of new information about the distorical, economical physiological and psychological aspects of smoking that is considered germane toward conducting a good informational program on the subject. The programs have been made available to non-commercial stations throughout the Commonwealth and have been shown a various interval.

5. ESTABLISHMENT OF EDUCATION WEEK ON SMOKING AND HEALTH

The committee has considered various ways in which to maintain interest and spotlight attention on the subject of smoking. One approach was to establish an Education Week on Smoking and Health. This was done for the first time during the week of September 21-26, 1964; and has been repeated during the weeks of October 17-23, 1965; January 8-14, 1967; January 21-27, 1968, and January 13-19, 1969.

Both Governor William Scranton and Governor Raymond Shafer, during their tenures, issued proclamations announcing the week. Various activities have been planned during these Education Weeks on Smoking and Health, including the Second Pennsylvania Conference on Smoking and Health, radio and television programs, school assembly programs, youth forums, exhibits, distribution of materials in pharmacies throughout the Commonwealth, school press promotion, and special emphasis on smoking in classrooms throughout the Commonwealth.

The Pennsylvania Committee kicked off the 1969 Education Week on Smoking and Health with a press conference and a luncheon meeting at the Hershey Motor Lodge on January 13. Representatives from the press and three television stations, as well as student reporters, were on hand to hear Harold S. Diehl, M.D., Special Consultant to the American Cancer Society, touch on the

highlights of the evidences thus far accumulated indicting eigarette smoking as a health hazard and the progress made thus far in dissuading the public from smoking. Representatives from the Pennsylvania Medical Society, Heart Association, Tuberculosis and Health Society, Cancer Society and Department of Public Instruction were also at the press conference.

After the press conference and the luncheon, Dr. Diehl addressed the Pennsylvania Committee and other interested persons on "Where Do We Stand and Where Are We Going with the Smoking Problem?". In this presentation, he elaborated on recent research proving cigarette smoking as a serious hazard, on efforts being extended to decrease the consumption of cigarettes by consumers, and on objectives and programs to which he thought major attention should be devoted in the mean.

MINITIATION OF PROJECT PROPOSAL FOR FULL-TIME STAFF

Because of the need in a number of states for staff to work with smoking and health coordinating committees, the Public Health Service notified the Pennsylvania Department of Health of the availability of funds for this purpose.

The Department of Health and the Committee were pleased to know that funds were available for staff because initially all the accomplishments had been achieved without a permanent staff. The participating agencies particularly the Pennsylvania Department of Health, provided the necessary staff services. This presented some problems, and the Committee was of the opinion that will an expanding program full-time staff would be desirable.

project proposal manufacture by the Pennsylvania Department of Health. The great which was received covered: (1) the salary of a professional staff member to serve as project coordinator for the Committee; (2) the salary of a clerk-stenographer; (3) the printing and purchase of educational materials; and (4) the purchase of office sapplies.

The project, approved the Public Health Service, was initiated on September 1, 1966, and will terminate on August 31, 1969.

7. STIMULATION OF RESEARCH PROJECTS

While the Pennsylvania Committee on Smoking and the Health of Youth cannot claim any direct connection, it can be credited for indirectly stimulating the establishment of three research projects in Pennsylvania.

Philadelphia Smoking and Health Research Project

This three-year (1964-1967) project was administered by the Pennsylvania Health Research Fund of the Philadelphia Department of Health. Its purpose was to test the effectiveness of education and small group interaction in modifying the cigarette smoking habits of parents of Philadelphia elementary school children, and to engage in a community-wide education program on smoking and health.

The idea for the project was proposed by the Philadelphia Tuberculosis and Health Society, during the summer of 1963, to a group of interested agencies. These agencies, including the Diocesan Schools of Philadelphia, Heart Association of Southeastern Pennsylvania, Philadelphia Department of Health, Philadelphia Division of the American Cancer Society, Pennsylvania Tuberculosis and Health Society, Philadelphia Home for Jewish Aged, Philadelphia Tuberculosis and Health Association, School District of Philadelphia, and U. S. Public Health Service served as an advisory committee to develop the project, which was approved by the U. S. Public Health Service in July of 1964. Funds (approximately \$50,000 per year) from the Division of Chronic Diseases, U. S. Public Health Service, were made available for its operation at that time, with the expectation that the project would continue for a three-year period.

Parents, teachers, and guardians of pupils in grades 1 through 6 of several elementary schools within selected school districts were approached by a questionnaire to determine their interest in the modification of their smoking patterns, and to ascertain their habits and attitudes toward smoking. Those who expressed interest were invited to a mass meeting, and, if they expressed further interest, to a series of small group meetings. Psychologists, physicians, and health educators were used to help conduct the meetings.

As a result of this project, William A. Allen, Director of Health Education, Philadelphia Benarement of Health; Gerhard Angermann, Supervisor of Philadelphia Smoking and Health Project; and William A. Fackler, health educator of a pulmonary rehabilitation project at Moss Rehabilitation Hospital collaborated to publish a book entitled "Learning to Live Without Cigarettes," which attempted to offer the smoker insights into his personal smoking problem and to suggest mechanisms which might be utilized to discontinue cigarette smoking.

Reading Anti-Smoking Clinic Project

This project was administered by the Pennsylvania Department of Health, Region VI through a \$10,450 grant from the U.S. Public Health Service. The Berks County Medical Society, and the local Tuberculosis, Cancer, and Heart Associations offered support and a local advisory committee provided community participation.

It was planned to help the habitual smokers who wanted to stop smoking but had not been able to do so through their own efforts. The project method selected was a series of eight clinic sessions of two hours each with follow-up "reunions" at three-month intervals. The clinic sessions were conducted by a team composed of a medical doctor, who was the clinic director, a psychologist, and a social worker who was the clinic coordinator.

c. Pittshurgh Public School Smoking Questionnaire

The Pittsburgh Public School System administered a questionnaire on smoking to all pupils in grades 7 to 12 during 1964. The Section on Physical and Health Education did so, in order to obtain better insight on the smoking habits of students.

The results of the survey are found in the appendix.

8. STREET ACTIVITIES

The Pennsylvania Committee has been engaged in a wide variety of activities, although currently it is concentrating its emphasis on conducting college smoking conferences for education students, organizing county interagency councils on smoking and conducting local leadership development conferences on smoking and health education throughout the Commonwealth. For example, during 1968, it assisted in publicizing the CBS-TV National Smoking Test; it encouraged the smoking education program of the Pennsylvania Congress of Parents and Teachers; and its member agencies asked their national counterparts to express to TV stations their concern and disapproval of cigarette smoking on TV by famous persons.

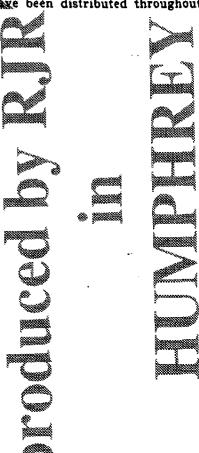
EPILOGUE

While each of the agencies represented on the State Committee has cooperated fully in this program, many activities were conducted by a number of the agencies independently in accordance with each of the agencies' general program. These independent activities, however, have helped to further the over-all objectives of the State Committee.

The Department of Health, for instance, has terminated the sale of cigarettes in state-owned tuberculosis hospitals; requested airlines landing in Pennsylvania to discontinue the distribution of free sample cigarettes; and urged better enforcement of existing laws which prohibit the sale of cigarettes to minors.

Educational programs including speakers, movies, dissemination of materials, and exhibits are held, particularly by the voluntary health agencies as well as the Department of Health, in the schools and communities and at special meetings—all of which help to swell the movement.

The Committee's efforts have won national recognition. Chairman Leedham was invited to participate in a meeting (January, 1965) called by the National Interagency Council on Smoking and Health to describe the Pennsylvania Program and to lend leadership in the development of "in-state" programs across the nation. Additional national exposure of the Pennsylvania Program was accomplished when the Committee was invited to present a progress report before the National Tuberculosis Association Annual Meeting in May of 1964. Also, the first edition of Smoking and Health: The Pennsylvania Story was published during April 1967. Copies of this publication have been distributed throughout the United States, and even to some foreign countries.



APPENDIX I

FENNSYLVANIA COMMITTEE ON SMOKING AND THE HEALTH OF YOUTH AGENCY REPRESENTATIVES

| Roger Alexis | Pennsylvania State Education Association |
|--|--|
| | Pennsylvania Health Council |
| | Future Homemakers of America, Pennsylvania |
| Attite Deaver | Division |
| Sylvia K. Bohlayer | Pennsylvania Department of Health |
| J. Britton | Pennsylvania Heart Association |
| Foreph R. Carr | Pennsylvania Department of Public Instruction |
| Nell C. Connell | Pennsylvania Division of 4H Clubs |
| Muchael E. Flanagan | Pennsylvania Department of Public Instruction |
| | (CO-CHAIRMAN) |
| Wohn Halloren | _American Cancer Society, Pennsylvania Division |
| Otto Kuscher, Jr. | _Pennsylvania Tuberculosis and Health Society |
| Charles L. Leedham, M.D. | Pennsylvania Department of Health |
| a) | (CHAIRMAN) |
| A Dale Lounsbury | _American Cancer Society, Pennsylvania Division |
| The state of the s | Pennsylvania Committee on Smoking and the Health of Youth (Coordinator) |
| Betty Middlesworth | Pennsylvania Nurses Association |
| ' 6 % | _Pennsylvania Medical Society |
| Barbara S. Ross | _Young Women's Christian Association |
| Norman L. Sheets, Ph.D. | Pennsylvania Association for Health, Physical Education and Recreation, Inc. |
| Authory V. Sinkosky | _Pennsylvania Department of Health |
| John Smith | Pennsylvania Congress of Parents and Teachers |
| Arnold L. Snyder | _Pennsylvania Pharmaceutical Association |
| Stephen C. Wilhelm | _Pittsburgh Public Schools |
| Gweneth Zarfoss | Governor's Council for Human Services |
| ASSOCIATE MEMBER | |
| Gerhard Angermann | Philadelphia Smoking and Health Research Project |

APPENDIX II

LETTER SENT TO SCHOOL ADMINISTRATORS MARCH 26, 1963

TO SOLICIT THEIR COOPERATION AND ATTENDANCE AT REGIONAL MEETINGS

There is abundant evidence that smoking—particularly cigarette smoking—is harmful to health liany national, state, and local health agencies consider smoking, particularly among teenagers, to be one of today's most important health problems. The American Public Health Association, the U.S. Public Health Service, the American Cancer Society, the National Tuberculosis Association, and the American Heart Association, have identified this problem as one that requires urgent study and action. Also, at its 1961 meeting, the Joint Committee on Health Problems in Education of the National Education Association and the American Medical Association adopted the following resolution on Smoking:

is now apparent from observation and studies that the individual can best avoid the practice of smoking by never forming the habit. In view of accumulating evidence suggesting deleterious health affects from smoking and no evidence of any beneficial effects, she Joint Committee encourages the home and school to initiate education for prevention the ages prior to the usual beginning of the practice. Such education should take the form of thorough exploration of the social factors involved and conflicting views relating the effect of smoking on physical and emotional health."

We must muster all remaines for an all-out attack in Pennsylvania. For maximum effective-new cational programs on tobacco and health should be more vigorously pursued in the upper elementary school and continued through high school and into college. Parents, teachers, physicians musses, and others in a position to guide youth should be informed about the smoking problem, and urged to help edicate goung people about the potential effects of smoking on their health before their health habits are established.

Remional meetings, the next step in this campaign, will be held throughout the Commonwealth. Public parochial, and private school systems, and state and private voluntary agencies and associations concerned with the problem will participate. You will receive specific information as to time and place, and you, remeal, are personally invited and urged to attend this meeting.

Sincerely yours,

C. L. Wilbar, Jr., M.D. Secretary of Health

Charles H. Boehm, Superintendent Department of Public Instruction

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APPENDIX III

LETTER SENT TO SCHOOL ADMINISTRATORS MARCH 25, 1965 TO SOLICIT THEIR CONTINUED SUPPORT OF THE PROGRAM

Smoking continues to be one of today's most important health problems, particularly among terms ers. Although we in Pennsylvania have now gained a leadership role among our sister states in activities to call attention to the harmful effects of smoking on personal health, it is time to state the future in terms of our progress, our goals and our continuing determination to attain these goals.

In 1962, we called on those groups and individuals concerned with the problem to muster all available resources in an all-out effort to help provide the facts to young people in the State about the patential effects of smoking on their health. The practice of smoking is best avoided by never forming the habit. Among the many accomplishments of this cooperative effort have been the institution of instruction on smoking and health in 47.5% of the school districts at the elementary level and 85.3% at the secondary level; the compilation of resource information kits and their distribution to schools throughout the State; four college seminars for future teachers; and many contacts with adults.

However we cannot hesitate at this point in measures to reach our goal of public well-informed about the dangers of smoking. Together, we need to intensify our efforts toward young people; to parents, teachers, physicians, nurses and others in a position to influence youth; and to expand these efforts toward the entire adult population of the State.

This communication, therefore, is to reaffirm the continued interest and unceasing support of bether the Department of Public Instruction and the Department of Health in their efforts in this or going program. We therefore request your continued support and interest in this work and again call upon you to continue your leadership in the work and to increase your efforts in behalf of the common.

Sincerely yours,

C. L. Wilbar, Jr., M.D. Secretary of Health

George W. Hoffman, Acting Superintendent Department of Public Instruction



APPENDIX IV

COMMONWEALTH OF PENNSYLVANIA GOVERNOR'S OFFICE

HARRISBURG

November 22, 1968

GREETINGS:

Pennsylvania Committee on Smoking and the Health of Youth, a group composed of representatives from State Government and private organizations, is convinced that all citizens of the Commonwealth, and particularly our young people, should be fully informed of the harmful effects of smoking of the latt.

To achieve this educational goal, it is essential that state-wide attention be focused on this problem and that the effort to reach all citizens be intensified and expanded.

Therefore, as Governor of Pennsylvania and in support of the educational work of the Committee, I hereby designate the week of January 12 through 18, 1969, as EDUCATION WEEK ON SMORING AND HEALTH in the Commonwealth.

RAYMOND P. SHAFER GOVERNOR

APPENDIX V

PITTSBURGH PUBLIC SCHOOLS

S. P. MARLAND, JR., SUPERINTENDENT

PITTSBURGH, PA, 15213

Administration Building Bellefield and forbes avenues

Section on Physical and Realth Education

Tanuary, 1965

REPORT ON QUESTIONNAIRE ON SMOKING

The following tables in the tesults of the questionnaire on smoking which was administered to all pupils in grades 7-12 during 1964.

In reading the tables please note that the first line in each chart shows the responses from all students in grades 7-12 and the last line shows the responses from all students in grades 7-9. A further breakdown shows the responses from pupils in senior high school only, junior high school only, and 7-8 grade elementary only. For convenience, the charts also show separate responses from both boys and girls in each of the school divisions. The percentages are based on the number of pages who answered a specific question as reported by the teachers.

Except for the totals showing the number of students, the results are expressed in percentages. In Table I the columns "% who smoke" and "% who do not smoke" represent the total of the inswers to the three questions:

- 1. I smoke ½ pack or more just about every day.
- 2. I smoke every day but less than ½ pack a day.
- 3. I do not smoke every day but I do at least once a week.

In Table II the columns "% yes" and "% no" answer in substance the question, "Did the information which you received in the health lessons change your habits and attitudes regarding smeaking!"

Table III shows the "% yes" and "% no" in answer to the question, "Will the information when you received in the health lessons deter you from smoking!"

Table IV shows the distribution of the responses to the question concerning the use and effectiveness of teaching approaches.

TABLE I

| " | DISTRIBUTION BY PERCENT OF ANSWERS TO QUESTIONNAIRE CONCERNING SMOKING HABITS IN THE PITTSBURGH PUBLIC SCHOOLS | | | | | | | | | | |
|----------------|--|-----------------|--------------------------|-------|----------------|--------------------------|-------|----------------|--------------------------|--|--|
| | All Boys and Girls | | is 7-12 Boys Only | | 7 | Girls Only | | | | | |
| | Total | % Who Smoke | % Who Do Not Smoke | Total | % Who Smoke | % Who Do Not Smoke | Total | % Who Smoke | % Who Do Not Smoke | | |
| Fotal 7-12 | 20926 | ₂ 26 | 74 | 10684 | 29 | 71 | 10242 | 20 | 80 | | |
| Sr. H.S. 10-12 | 9700 | 32 | 68 | 5112 | 37 | 63 | 4597 | 28 | 72 | | |
| | | | <u> </u> | | | | | | | | |
| H.S. 7-9 | 79 | 23 | 77 | 3792 | 26 | 74 | 4147 | 19 | 81 | | |
| Elementary 7-8 | 3278 | 14 | 86 ' | 1780 | 17 | 83 | 1498 | 9 | 91 | | |
| Total 7-8-9 | 11217 | 20 | 80 | 5572 | 23 | 77 | 5645 | 16 | 84 | | |



| | DISTRIBUTION BY PERCENT OF RESPONSES TO QUESTION "DID INFORMATION CHANGE HEALTH HABITS!" | | | | | | | | | |
|----------------|--|-------|-----------|-------|-------|------------|-------|-------|------|--|
| 4) | All Boss and Girls 7-12 | | Boys Only | | | Girls Only | | | | |
| | Total | % Yes | % No | Total | % Yes | % No | Total | % Yes | % No | |
| Total 7-12 | 5291 | 54 | 46 | 3221 | 56 | 44 | 2070 | 50 | 50 | |
| Sr H.S. 10-12 | 2948 | | 49 | 1884 | 56 | 44 | 1064 | 42 | 58 | |
| | | | | | | | | | | |
| 94. H.S. 7-9 | 1737 | 54 | 46 | 938 | 55 | 45 | 779 | 54 | 46 | |
| Elementary 7-8 | 606 | 64 | 36 | 379 | 62 | 38 | 227 | 69 | 31 | |
| Total 7-8-9 | 2323 | 56 | 44 | 1317 | 57 | 43 | 1006 | 57 | 43 | |

TABLE III

| | DISTRIBUTION BY PERCENT OF RESPONSES TO QUESTION "WILL INFORMATION DETER YOU FROM SMOKING?" | | | | | | | | | |
|----------------|---|-------|------|-----------|-------|------|------------|-------|------|--|
| y | All Boys and Girls 7-12 | | | Boys Only | | | Girls Only | | | |
| | Total | % Yes | % No | Total | % Yes | % No | Total | % Yes | % No | |
| Total 7-12 | 14796 | 84 | 16 | 7589 | 84 | 16 | 7167 | 84 | 16 | |
| Sr. H.S. 10-12 | 5937 | 78 | 22 | 3224 | 77 | 23 | 2713 | 80 | 20 | |
| | | | | | | | | | | |
| ₩. H.S. 7-9 | 6044 | 87 | 13 | 2761 | 87 | 13 | 3303 | 86 | 14 | |
| mentary 7-8 | 2795 | 90 | 10 | 1604 | 90 | 10 | 1151 | 90 | 10 | |
| Total 7-8-9 | 8 159 | 87 | 13 | 4365 | 88 | 12 | 4454 | 87 | 13 | |



| | TABLE | REFLECTING TO TEACHING | JSE AND G APPRO | EFFECTIVEN ACHES | YESS | | | |
|----------------------|--|------------------------|--------------------|---------------------|------|------|--|--|
| | | | | Effectiveness | | | | |
| Approach | h | No. | of Times Used | Excellent | Good | Fair | | |
| Class Discussion | | | 54 | 20 | 27 | 1 | | |
| Wisual Aids | | | 42 | 23 | 13 | 2 | | |
| Issividual Reports | Securios Sec | | 39 | Ŝ | 20 | | | |
| nel Discussion | | | 20 | 5 | 10 | 3 | | |
| Debate | | | 16 | 5 | 10 | 2 | | |
| School Assembly | | | 6 | 3 | 2 | | | |
| periments | | | 6 | 4 | 1 | _ | | |
| Dramatic Presentatio | ns | , | 4 | 1 | 2 | 1 | | |
| Resource Persons | | | 3 | - | 3 | _ | | |
| Making Posters | | | 1 | _ | 1 | _ | | |
| Original Displays | · · · · · · · · · · · · · · · · · · · | | 1 | _ | 1 | _ | | |

APPENDIX VI

RESEARCH PROJECTS ASSOCIATED WITH COLLEGE CONFERENCES ON SMOKING CONDUCTED BY THE PENNSYLVANIA COMMITTEE

Two studies were conducted by Arthur G. Hunsberger, Public Health Educator, Pennsylvania Department of Health. During 1967-69, Mr. Hunsberger coordinated the college conferences on smoking.

A. PERCENTAGE OF SMOKERS

A study of smoking among certain categories of college students in five colleges in Pennsylvania from 1965-66, to 1967-68, showed that there was a percentage decrease of smokers in all five colleges but that the decrease was not yet statistically significant at the .05 level of significance. Although it was not possible to directly correlate the percentage decrease of smokers with the numerous smoking and health educational activities that were occurring in Pennsylvania, part of the percentage decrease of smokers was probably related to the increase of anti-smoking activities and is an indication of a trend.

Table 1 compares the approximate total attendance, the total number of students completing the questionnaire, and the number and percentage of smokers and non-smokers at each college for each program.

TABLE 1

COMPARISON OF PERCENT AGES OF SMOKERS AT FIVE SELECTED COLLEGES IN PENNSYLVANIA, 1965-68

| | | Total Attendance | Total Completing | Sm | okers | Non-Smokers | | |
|---------|--------------|---------------------------|---------------------|----------|--------------|-------------|--------------|--|
| College | Year | | Survey | No. | <u>%</u> | No. | <u>%</u> | |
| | 1965 1968 | 230 | 141 97 | 58 37 | 41.1 38.1 | 83 60 | 58.9 61.9 | |
| В | 1965 1967 | 300 2 50 | 54 75 | 23 28 | 42.6 37.3 | 31 47 | 57.4 62.7 | |
| t | 1965 1968 | 258 | 199 99 | 71 25 | 35.7 25.3 | 128 74 | 64.3 74.7 | |
| | 1965 1968 | 456 130 | 377 79 | 99 15 | 26.3 23.4 | 278 64 | 73.7 76.6 | |
|) F | 1966 1968 | 700 300 | 160 ' 189 | 61 69 | 38.1 36.5 | 99 120 | 61.9 63.5 | |

B. STEELULATING STUDENTS

A second study demonstrated that there was a statistically significant difference between the percentages of non-smokers and smokers attimulated by an educational program to teach the facts apparent on cigarette smoking and to promote its discontinuance. It suggests, based on a study at one college, that there are educational techniques that can be utilized to overcome the difficulty encountered in persuading prospective teachers, both smokers and non-smokers, to teach the facts on cigarette smoking and to promote its discontinuance.

Table 2 compares the number and percentage of smokers and non-smokers who were stimulated by the educational program to teach the facts apparent on eigerette smoking. Application of the x^2 test with ld.f. shows that at the .01 level of significance, a significantly higher percentage of non-smokers than smokers were stimulated to teach the facts apparent on eigerette smoking.

Table 3 compares the number and percentage of smokers and non-smokers who were stimulated by the educational program to teach the facts on cigarette smoking and to promote its discontinuance. Application of the x² test with Id.f. shows that at the .001 level of significance, a significantly higher percentage of non-smokers than smokers were stimulated to teach the facts apparent on cigarette smoking and to promote its discontinuance.

Table 4 compares the number and percentage of smokers stimulated to teach the facts on cigarette smoking only with the number and percentage of smokers stimulated to teach the facts on smoking and to promote its discontinuance. Application of the x² test with ld.f. shows that at the .001 level of significance, a significantly higher percentage of smokers were stimulated to teach the facts on cigarette smoking only than they were stimulated to teach the facts on cigarette smoking and to promote its discontinuance.

Table 5 compares the number and percentage of non-smokers stimulated to teach the facts on cigarette smoking only with the number and percentage of non-smokers stimulated to teach the facts on cigarette smoking and to promote its discontinuance. Application of the x² test with ld.f. shows that at the delevel of significance, there was no statistically significant difference between the two groups of non-smokers.

Table 6 compares the statistical results that were collected at one of the nine colleges participating in the smoking educational programs. The utilization of role playing and an informal expection and answer action at this college's program were the two activities that distinguished this college's educational program conducted at the other eight colleges.

Application of the x^2 test with ld.f. revealed for this college that there was no statistically significant difference between smokers and non-smokers with respect to their being stimulated to promote the discontinuous of cigarette smoking (p < .50). There was also no statistically significant difference between smokers being stimulated to teach the facts and smokers being stimulated to promote the discontinuance of cigarette smoking (p < .50). Nor was there any statistically significant difference between non-smokers being stimulated to teach the facts and nonsmokers being stimulated to promote the discontinuance of cigarette smoking (p < .50). The survey results at this college were significantly different from the survey results at the other eight colleges.

TABLE 2

COMPARISON OF NUMBER AND PERCENTAGE OF SMOKERS AND NON-SMOKERS STIMULATED TO TEACH THE FACTS ON CIGARETTE SMOKING, NINE PENNSYLVANIA COLLEGES, 1967-68

| Category Smokers | | Total 418 | Stimulated 310 (74.2%) | Not Stimulated 108 (25.8%) |
|---|--|--------------|----------------------------|----------------------------|
| Non-Smakers | | 816 | 662 (81.9%) | 154 (18.9%) |
| ## \ | | | (0010)0) | , (22.1.) |
| | | | | |
| .01 (ld.f.) | | | | |
| | | | | |
| · · | | TABLE 3 | | • |
| AND PROOF OF MAIN | PED AND | | OF CHOKEDS | AND NON-SMOKERS |
| | | | | G, AND TO PROMOTE |
| | | NINE PENNS | | |
| | Ann Ann | | | Response |
| Category | | Total | Stimulated | Not Stimulated |
| Smokers | processing the same of the sam | 413 | 251 (60.8%) | 162 (39.2%) |
| Nee-Smokers | | 799 | 619 (77.5%) | 180 (22.5%) |
| g S | | | | |
| P.> .001 (ld.f.) | | | | |
| | | | | |
| | | | | • |
| | /// | TABLE 4 | | |
| COLUMN TO THE REAL PROPERTY OF THE PARTY OF | | | Of enovere e | STIMULATED TO TEACH |
| THE FACTS ON CIGAL | mber and Perterásmo: | KING ONLY A | ND STIMULA | TED TO TEACH THE |
| FACTO ON CIGARETTE | SMOKING | AND TO PROL | OTE THE DI | SCONTINUANCE OF IT. |
| | | ISYLVANIA CO | | |
| | No construction of | | | nse of Smokers |
| Category | gammen of | Total | Stimulated | Not Stimulated |
| Teach Facts Only | | 418 413 | 310 (74.2%) 251 (60.8%) | 108 (25.8%) 162 (39.2%) |
| Peomote Discontinua | ince , | 413 | 201 (00.0707 | 102 (0)2/0/ |
| | | , | | |
| P > 001 (ld.f.) | | | | |
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| * | | 7 | | |
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TABLE 5

COMPARISON OF NUMBER AND PERCENTAGE OF NON-SMOKERS STIMULATED TO TEACH THE FACTS ON CIGARETTE SMOKING ONLY AND STIMULATED TO TEACH THE FACTS ON CIGARETTE SMOKING AND PROMOTE THE DISCONTINUANCE OF IT, NINE PENNSYLVANIA COLLEGES, 1967-68

| NINE P | ENNSTLVANIA C | OLLEGES, 1907-08 | | |
|--|---------------|------------------------|---|--|
| | Total | Response of Stimulated | Response of Non-Smokers Stimulated Not Stimulated | |
| Category | Total 914 | 662 (81.9%) | 154 (18.9%) | |
| Teach Facts Only | 816 799 | 619 (77.5%) | 180 (22.5%) | |
| Teach Facts and Promote Discontinuance | 799 | 019 (77.370) | 160 (22.576) | |
| Tromote Discontinuation | | | | |
| *** | | | | |
| P < .05 (1d.f.) | | | | |
| 3 2 (100) | | | | |
| | | | | |
| | | | | |
| | TABLE 6 | i | | |
| COMPARISON OF NUMBER AND | | - | NON-SMOVERS STIM- | |
| UNATED TO TEACH THE FACTS | ON CIGARETTE | SMOKING ONLY | AND TO TEACH THE | |
| EACTS ON CIGARE MOKING | | | | |
| | 1968 | | | |
| | · | Response | | |
| Question | Smokers | cesponse | Non-Smokers | |
| Stimulate | | ed Stimulated | Not Stimulated | |
| Feach Facts? 36 (100.09 | | 56 (94.9%) | 3 (5.1%) | |
| 2. Teach Facts and 15 (97.29 | | 55 (94.8%) | 3 (5.2%) | |
| Promote Discontin | | | | |
| uanced | | | | |
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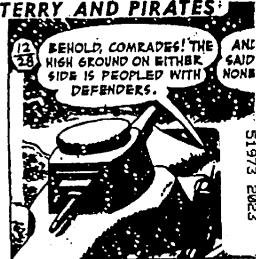
PITTSEURGH POST-GAZETTE

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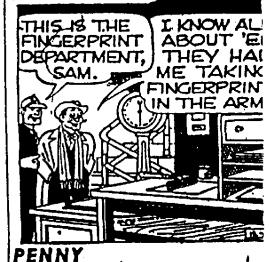
WELL WE TRACKS-(UP YET, ANNIE -BEE? NO TRACKE BE DONE ON FARM TO THE BARN-

AN ANNIE









.-ATHER, IS IT TRUE THAT A TAILOR DOESN'T CARE ABOUT

HIS OWN CLOTHES?

Personal Health

By Dr. William Brady

How to Quit Smoking

IN A discussion of peptic ulcer at the meeting of the. American Medical Association last June one physician said "As a rule I do not put my patients in the hospital, but in the beginning use bland diet, with alkalies to control the acidity—I have had patients who got no relief

from put until they stopped smoking. Many of my patients are allowed to continue to smoke in moderation, but there were lew who have pain and do not get relief from it until they stop smoking." The doctor practices in a community where cigarets

Another internial from New England, added the comment that the first/speaker was some lentent than he would be about smöking:

"I am firmly convinced that the proper treatment of meer. includes complete stopping of smoking and that the difference, in most cases, between the patient who is well controlled medically and the patient who is partly controlled medically whether he smokes or does not smoke and

There you are folks. These opinions are faitly representative of the consensus of the medical rofession, I believe.

I femerly recommended to persons who wanted to break the smoking habit, rinsing the mouth and gargling night and morning with a solution of 30 grains of silver nitrate in a pint of distilled water - using a mouthful each time and spltting it out, but not in the sink or tollet basin unless you are careful to wash it away with running water-otherwise it may leave a dark stain and you will

threaten all kinds of actions against me for damage. longer recommend this-if you use it you do so at your own peril. It makes a smoke taste bad, that's all.

I still recommend apples—eat a raw apple each night at bedtime and at breakfast each morning, and a baked apple or some apple sauce at lunch and dinner.

Keep, some candy handy and hibble a piece in lieu of a smoke when the craving comes on.

Avoid the company of smoking hogs.

Finally, take two miles of oxygen on the hoof three times a day, or three miles twice a day (say walking to and from work) or six miles once a day (say a good hike every day or every evening),

QUESTIONS & ANSWERS Worms

Since childhood I have ground my teeth at night. Several times I have found pin worms. But my doctor states that worms in a human is just an old-fashioned (D, K.) myth.

. Answer — Children and adults commonly harbor pin worms, round worms, tapeworms. Send twenty-five cents and stamped, self-addressed envelope for book-let, "Unhidden Guests." It deals with these and numerous other parasites or pests,

uest.e&dud/zra@7a98/pw/w.industr.documents.

copie, as the new seasons were bielded bullishie beforemation. has warned, doctors wo! vi lo engage in any " s such as boycott, s 120

PPG, July 13, 1965, P. 8 51973 2024

has always atemed to his that Strictly Personal

exercise the demons of their Fails Critical Test na and find it easy to life ortanty with medicare, Actually, reas may have done them a favor.

ilses to be great.

ristative Rat Race render will consume an addi-E ESSENTIALLE irresponsible. sature of the State Legislature's out while aware that he is isan performance was demon- about that many . "

Isan performance was demon- about that many . "

Then Dr. Johnson goes on Mr. Barrie that he is the best of the barrie of the best of the best of the barrie of the best of ped on the Governor's deak.

ropriations bill which finances cann t of the state energions. Gover-Beranton had asked for, and the

Harrisburge lowest boll cal ii he Democratic House sought at the Governor on a spot. It sted the appropriations bill by ie \$31 million in in effect, dared Governor to off it. The Governor w that to appeare the increase aid be to return to relicit financing 'n which the Democrats could make tical capital in 1966. On the other nd, to veto such micreases as those public assistance could be to invite utical charges of calous indifference the plight of Pennsylvania's needlest zeria.

Governor Scrafton acted in the st interest of a the people, we bedded by the House This will permitcord of his administration shows he real pleasure out of nclusively that it has been gener-

crease for the Superintendent of a neutral state.

s expect that the doctors will New Cure for Smoking

By Sydney J. Harris

IN A RECENT laste of "Business Marinds to reason that linder this law "agement" magazine, Dr. Harry, Johnson will not be expected to perform the line Cigaret Smoker Who Can't Quitte

greatest money problem will be, "Smokers really enjoy" cost of framefogram, which only 10 to 12 rigarets a day, he pointed out-"Reluctantly, I can condone this relatively amail number, Rut a hust evtional 50 rigarets, without enjesting them and often with.

> to advise: "If you restrict yourself to the One trustee even admitted in the you enjoy, and eliminate the 30 he felt things weren't going your can reduce your risk tof lung cancer! by 75 ber cent. However, you can and retain 100 per cent of the pleasure of

blican Benata had approved, a separate of the absolutely true, both this trustee is vice-chairman dependent of well over ingreater and factually but, unfortunately, of the board of our best Michelangelo used WHAT'S wrong with this invely and perif lesions the psychological dynamics of ciga-in addition. For the siddet doesn't amoke asin pleasure he smokes to avoid pain. o denirals anxiety, to surmount crisis, to ne cold confrontation with reality. And this, also, is an true of the confirmed emoker as it is of the narcotles addict and the alcoholic. All are in the same big business by nature and sealer for. PART TE

Lis not even the first 10 cigarets of the as that are pleasurable, only the first two Tiffe, After that, as the old saying goes, he mangis not amoking the cigaret, but the is smoking the man,

denther Dr. Johnson Samuel, the continues and that "abottmente is as easy we as temperance would be difficult." He was expressing the psychological truth that to give up a habit is almpler than cutting down.

if we addicts could amoke only 10 clearets ve, in veloing most of the items a day-spaced out at sensible intervals -there would be no problem, and we would not be addicts. But it is not the first 10 that are im-11 to balance itts budget and avoid portant to us; it is the last 30. It is the ones ficit spending. And, after all, the we are not aware we are smoking and get

THE NARCOTICS addies at first taken sly responsible to the needs of the dope for pleasure. Soon, however, he is forced to keep taking it merely to avoid pain, He desperaiely needs the lix hat to obtain tow but to ward off the harah Breaments of ouse was even more irre- reality. This is his tragedy; that it requires naible in its action on a salary more and more dope merely to keep him in

blic Instruction. The Administration smokes for pleasure, just as leds a mistake is tried for months to get the salary to think that the gambler gambles to win. was one to see the latter cannot walk away from the table the statement-simply is not and promising live

ling in personalities let in their stockings person + heve & board of tribles whom the Chancellor is arutinishle If they did not check the retrait is no one's fault but their some By-the iruatees' own admission, they knew Pitt had been operating in the red for four years!

Granted; a position on the board of trustees is an appointive one (Bit by whom I am. not surely they serve long injeconceptions which hours, without pay, and order and brould be correctly the saying goes should like bothing to the correctly the saying goes that the sea culter. Inc

dents whose parents are ex- not of the hature of pending several incusand dol: day's article. Jura u yaar for their sons and daughters to attend a reputer-Squirral billi his university? --

Were they loyal to their env. Curtiller Correct playes, both professional and Article Headline non-professional, who were fulfilling -their obligation to the university only to find is July ? Issue concernir days - before - payday - they might an he hate at any

One trustee even admitted well, but since he had been a member of the board for only six years, and "knew little if anything about the complex world of university finances' known banking firms, that by the nature of its business gives financial advice to, and invests money for, thousands of people dally.

A university cannot be run like a big business; it is not such. So while we are all talking of improvements. changes, etc. - why don't we change our concept of a board of trustees?

Equirrel Hill

Photo Coverage -On South Africa Hit

As a South Airlean who has original rightsound on apanding the past year equally sound. We to been spending the past year here in Pittsburgh on a foreigh student exchange provides to do evil, but ridiculous pleture article, "Platol Packin" Which was published in the Post-Gazante Wednesday 1.

Wednesday, June 23. raised in alumn ofte a realise that a certain sangaters, when we amount of so-called sensation. little change of for alism is necessary to most might have led the newspaper coverage, but I do then will equal viz. phrase "housewives in South Jesus Dice phrase "housewives in South Jesus once der Africa seem to be obsessed speaking about child with the idea they need to their angels are rearry a platch." Not only are fore the face of the the implications of such a Father, Wise pares a statement automate with statement actremely ugly, but sizes in handling th

all Bouth Africans Ti MUST HUTE SAN THIS THE elephants down to the SUDSTITUTE REFER

the same category as so

have been exposed durt

-Little enough about country is published hewspapers here as it there are certainly went mention made of Were they loyal to their stul. African affairs, but de-

KATHRYN BAL

I read the article ier, which I wrote do Natr advocating belue foot patrolman mat policing the streets-

Strength For the Da

Michelangelo used clare that carving consisted only of the form - and _m which abody therein. found him one day. mailet and chizel wo huge place of "What are you doing his friend. And Michael answer was, "I am le angel out."

A great deal of living, if we could PROFESOR'S WIPE . come aware of it, it releasing in our own good which is alread The doctrine of original suite sound, but way in which the desired

Of a Smoking Addict *

To Halt Nuclear Spread

TN URGING President Johnson to take drinking until he knows he is an alcoholic. So ment on a treaty barring the spread will continue to be an alcoholic. of nuclear weapons, a group of prominent Americans has shown why the issue is one for urgent action.

Pointing out that there are now the morning because it gives anly five nuclear powers the U.S. me pleasure But the pleasure Britain, the Soviet Union France and first never it as need I can-China Educational Committee to not control. Halt stomic Weapons Spread observed one. I smoke when it issues that the ions "stand in the wings had I smake without knowtrying to decide if they must produce ing i am amount I some their own atomic fire to escape the role times amoke two ciparets at a of heaters the nuclear three the countries the countries believes could produce nuclear reapons and "appetive, that universal wolf, at last mithin months and 12 other countries devours itself," as Shakespeace warns us. within three years. The signer message the President warned that "once the fire nuclear countries." been opened. It may not be snut

To help avert the prospect of a world subject (and blackmas ... irresponsible metional leaders wield nuclear energy, the committee wants President Johnson affirm in unequirecal canguage the States will not give up to any other power flagaciasive velo over the earnership, continuend use of US nucle scuinous than mine, but we are all in the arms through NATO, the Eur theater to anywhere else" assurance is in the penecessary b Such While the Project has said we want inroat a dry mouth a headache. My "morn, children, and above all, will num posinge a treaty will of any loopholes."

In the project of any loopholes after begins the might before.

Experience the blessing of a press Mr. Common U.S. bas shown an interest in meeting desire to share in the control of nuclear shing moderately. Find out early if you are in the newlous wording of the U.S. as you would the lead draft treat

seaders in science, education, religion.

1 advice and envy people who can smoke to to use knowledge. Again, we lower his example to the second of the secon

IT IS SAID that the alcoholic rannot quit.

By Sydney J. Harris

extraordinary steps to secure agree- long as he calls himself anything else, he

The same is true of amoking I am not a

cigaret smoker. I am an addict. Addict. Addict. Addict."

I take my first eighted in .

--- francisc when I don't want

MY EEASON is dominated by my win, For the Day and my will is dominated by my appetite

That I tried quitting eigarets before, but always for the wrong reasons. Because they make me couch. Because they make my beart flutter, Because they may give me lung cancer. These are not effective reasons

The only effective reason for quitting is that I am controlled by the appetite, I am a since, A weakiling, A counsed if may not built smoking right away, but I am determined to quit kidding my self. liarris is an addict. A worm. A limp, feeble creature.

What right do I have in look pityingly at the alcoholic or the done addict? Their habits may be privaically and somally more ziso juodii Wisoo muta

And they, at least, have a tenuous excuse which I do not have. The liquor and the gope t to be necessary because give them pleasure, of a perverted soft. Toey ion has been ambigues bolain a release I obtain nothing but a sore

Shown an interest in 100NG PROFIR the not believe the Germany's expressed smooth propaganta about "smoxing in moderation" Some people cannot indule in any YOUNG PROPILE, no most believe the warminguity is reflected one of those people- and then show the habit that education will not save

Hamuel Johnson said that 'abstroence is Unless we have something The new prilitee—needed by Dr. nimself well knew that if he began drinking professional schools can give and made up of 290 a hitle, he would end by orinking a lot

business, labor and public affairs unique in more I am not one of them. I do must have either a clear conbelieves that the President must resolve not smoke the organel It-emokes me. This is science or a realization that ple rejoice and a a conflict in priorities between obtaining my aniect confession of utter weakness. God has forgiven us our sine recognizes the endpon-proliferation treaty and placating dusty death.

Confession of utter weakness. God has forgiven us our sine recognizes the endpon-proliferation treaty and placating dusty death.

Point three beginning to the confession of utter weakness. God has forgiven us our sine recognizes the endpon-proliferation treaty and placating dusty death.

U.S. to continue to time and more any once that eleptiant is ab saved by the surd. When will me toured moust and my power politics and sell-right pleasant eousness about democracy streets are (something the - Vietnamese Apery Source people have never exper were renced; and remember our ho-on Wilkens manity?

When will we that the air Avenue. a of this pollution of violence and BB it with ideas? EMILY SCHATTSCHNELDER IR Elegant's Putsburgh

City Tree-Cutters Told_Off by Reader now worth a ;

The elm tree blight in South Mr. Blankensl Park [P-G, Sept. 17] may be people of the destrucing hundreds of old at least be tiers, but it's getting real time. County Parks petition from city Torester B. McDonough Earl Biardenship and his incalculable va crow. Chop them down? That's trees. the motto, and not just the

fathed comple

The city pl Tubbing their be pouled into neighborhoods downhill years of prevention

MRS JAME

Strength

By EARL L. DOUGLASS

This Glorious Are

To what extent does learn- criticized the P. ing get us anywhere? Some stamp. of the happiest people in the world are people without edu-oring a Comcation. Some of the most miss ment imposed erable people have degrees Poiss enurens after their names a yard long, nium stamp w Does this mean that ignorance is desirable or that those who aware of the have no education get along Polish Pecchi's better than those who do?

Not at all. We should embraile every opportunity to become educated. Boy's and gulls viba work their way through school will never regret their being sent to ; efforts Parents who sacrify a that their children may have college and professional eduction, the Polis cations will find themselves intreatened to be praised some day by those seas mail near quiet conscience. Anyone who "honoring" a c neglects the opportunity to gime? :get=a : good=education- is-sim-DIV ROL WISE.

But let us contront the fart the world or make us happy us. First of all we must have

M 300

Further Co On Polish !

In reply to 3 brrland of Bu ple Sprak, S

We in Ameri Cumberland is hemently prote of the stamp that the total stamp was sur CTOWN

Letters beam und della ed and being form off

— Hie ase noi ce. vears of nation etisted inne belt we are common 1000th apprearsa manny in Inst. Mieszko, the pri Poland's first res stress that word baptures a Curs

This is why a!

W 16

Page:

industry responsible for roughly 1,000 deaths a day in this country, the Tobacco Institute said it was concerned that Dr. Koop's pronouncement trivialized the nation's drug problem, which is something serious.

You may have seen someone from the Tobacco Institute on TV, saying these things. They are always attractive young men and women, tastefully dressed, who take money to represent digarette manufacturers and insist that no link has been proven between smoking and any disease.

That is what these attractive young men and women in their tasteful suits will say for money. The Justice Department, which obviously has some money of its own, ought to hire a couple of them away to help clean up money of after Edwin.

If they are not up to the job, I don't know who is.

DESCRIPTORS: OPINION

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LOG(R) File 731: Philad.Dly.News
Philadelphia Reward pers Inc. All rts. reserv.

THET CKED THE HABIT NICOTINE ADDICTS WHO PUFF NO MORE
Philaderphia Daily New 100 - WEDNESDAY May 18, 1988
By Barbara Beck And Mary Flannery, Daily News Staff Writers
Edition: PM Section: ES HEALTH Page: 29 Word Count: 969

TEXT Throw away the figarettes. Bury the ashtrays. Take a long, deep rnis breath.

With the declaration by Surgeon General C. Everett Koop Monday that nicotine in topicco is an addictive drug comparable to heroin, the y be no better time for smokers to quit.

Koop 618-page report cited 171 separate studies as proof that nicotine hooks shokers, and says to drug has psychoactive and mood-altering effects on the rain.

there are close to 50 million tobacco addicts in the ing to the Centers for Disease Control's Office on Smoking close to 50 million tobacco addicts in the means counter according to the Centers for Disease Control's Office on Smoking and Weilth. Yet at last some 41 million people have kicked the habit since 164, when the landmark surgeon general's report linked cigarettes to

tonk of those quitters have been persuaded by the gruesome scientific study pointing to health problems of smokers. According to a spokemen at the National Institutes of Health in Bethesda, Md., spoke an at the National I smoking related problems include:

Lung cancer.

Emphysema.

igher incidence of cancer of the esophagus, pancreas, bladder and kidney

(cont. next page)

IMAGE

Dialog Information Services,

Page:

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PO66: PR 59/9/92,95-96,98,100,107-108,110-112,114,116,118,121-122,125-126,-

- * The earlier onset of menopause for women.
- * Wrinkling of the skin.
- * Specific threats for women and their babies: stillbirths, sudden infant deaths and miscarriages, lowered fertility, and danger of strokes and heart attacks in smokers who take birth controll pills.
- disease annually.
 - * A tendency to catch more colds.
 - 🔭 More inner-ear infections for smokers' children.
- t Growing evidence that the non-smoking spouses of smokers have higher rates of heart and lung diseases.
 - What follows are accounts of what drove some people to quit for good.
- It was two years ago when my aunt was at the National Cancer Institute in Bethesda, Md.,' remembers Richard Wolf, a 38-year-old accountant from Center who smoked a pack of non-filtered cigarettes a day. ''After months of fatigue and misquided treatments from her doctors here, the diagnosis visualist lung cancer, a lump the size of an orange.
- Two days later my uncle and I settled into the clinic's family waiting room, prepared to spend three or more hours pacing, and reading, and pacing some more, while the doctors removed the lung. But in just an hour and a half we were summoned: The cancer had metastasized to the bone; there was no point in taking out the lung.
- eyewithess to the ravages that smoke brings, watching the pain of the patients, the pain of their families. There were young men and women walking the hallways moked up to IV bottles. Their heads bald from months of chemotherapy. My aunt would tell us of someone down the hallway from her crying at night.
- 'www.quit that day will never smoke another cigarette again. And I'm no longer afraid to tell others to quit. '
- d had been thinking about quitting for a year, '' says ''Evening Magazine' co-host Ray Murray. ''I thought, this is asinine. I was 33, getting to point where it's becoming more difficult to keep weight off. I thought, I'll be a paunchy middle-aged man with lung cancer.
- remember my first cigarette. It was my first assignment for 'Even my Magazine.' There were a lot of eyes on me, a lot of pressure to do well . I looked at my producer, who was smoking Newports, which looked awfully good. And for the next eight years, I smoked Newports.'
 - Jerry Angert, at 41, is an independent television producer in

(cont. next page)

Page: Item:

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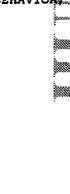
Philadelphia. He has no trouble remembering the day he quit his two-pack-a-day habbit. 'Pearl Harbor Day, 1976. That's Dec. 7. I had been toying with the idea of quitting for a while. But I think I needed something to push me over the edge. And this was it. Around 1 a.m. on Dec. 7, I ran out of cigarettes. It was cold and late. I was living in Devon and my car was being repaired at the time. So I walked about a quarter of a mile to a nearby Wawa... Even though they were closed, I could see someone inside. I started banging and banging on the door until I could get his attention. I need some cigarettes I yelled at him. He said, 'I can't. I'm woed.'

"'Then he looked at me and said, 'Do you have any idea what a fool you making of yourself?' I decided then and there I was never going to pick up another pack of cigarettes again. And I haven't."

Society, had a two-pack-a-day habit for ''many, many years. Since college.'

University athletic director Charles Theokas, quit ''for good'' six years ago. ''My 4-year-old daughter would say, 'You're a closet smoker. I'm going to everyone that you smoke.' I had tried everything - putting a clip in my ear, hypnosis, cold turkey. Finally one day, I just said, 'The hell with this. I'm quitting.'''

DESCRIPTORS: BEHAVIOR DISEASE; LIST; CANCER; BIOGRAPHY



AMINE,

UNITED STATES



OF AMERICA

Longressional Record

PROCEEDINGS AND DEBATES OF THE 88th CONGRESS

VOLUME 109—PART 8

MAY 29, 1963, TO JUNE 19, 1963

(PAGES 9797 TO 11232)

rice Oversia

1 vist bettern General Franco has given to his country lendership it could not have been siven by maybody cise. He has helped ponce in Europe. The nations there are very happy with the way Spain has acted, and in my

Bizenhower, another Republican President? the present admiration and affecegaling will always be remembered." President Eisenhower's military lead-

ATTITUDE TOWARD BUSINESS

I. Air. Farier at 75 an exponent of the himburners he fought as a youth? The timeer which through many considerations, the difference between the Democratic and Republic and between considerations. The gist of the repty was

protess and between constraints and programmers. The gist of the repty was been addeduced by the programmers and enemy of business than the period thank. The Democratic Party was a fact that the organization of the form that the proposition of the form that the control of bit such as the control of bit such as the control of bit such as the control of bit such as the control of bit such as the control of bit such as the control of bit such as the control of bit such as the control of bit such as the control of bit such as the control of bit such as the control of bit such as the control of bit such as the control of bit such as the control of bit such as the control of the

"And when I say supported everythists. I mean that I did more to get is through than a specific except the President and Vice beetsight Garner. I was the second dealt but the Congressmen and Senators when the mas a holdup on a senator transport of participation of patronage to get the bills through. We withheld " " until the page. We did it because we fell to

"And since I left Washington I haven't had absolution position at all."

The Democrats as the focs of big business?

"No no concration of American business was commended more than by Mr. Roosevelt in the score just after 1933, through his hanking regulation, his bills du ig the 190 days, sinc war he saved the banks, the way he save mearance companies. No administration ever did more to save the capitalistic system. And of course I believe in business. I believe that this country's greatness is because of the free enterprise It is because of the work of sintere, honest, aggressive men.

HOW THE MAJOR PARTIES DIFFER

The differences then between parties? Do we have four parties: Dixiecrate, liberal Morthern Democrate, Barry Goldwater Republicans. Nelson Rockefeller Republicana? What is the key to the quetaion of "party 273117"?

"Four parties? No. We have two major parties and I hope we always will have only two. I firmly believe in two parties. I believe there is room for all shades of political opinion in both parties. Room for them and we do have them."

An experience one day with "a lady in Paris" summed up the complicated question for Mr. Farley.

The feminine inquisitor had one pointed question. Why did Mr. Farley support Mr. Roosevelt in his campaign for the third and fourth terms despite Mr. Farley's own percount vigorous disapproval of both ventures? I voted for Hull at the convention in 1940 and Senator Byro even though he wasn't a candidate in 1944.)
"I explained that even though I did not

britere in the third and fourth terms, that I did believe in majority rule. But she kept pressing me. She said that I was not a good American, that I was not patriotic. It is dif-ficult to explain party loyalty, party respon-tibility, why you always support the nomi-nous of your party. Then I pulled something notes of your parsy. Here is natice sometime on that I lind read sometime in a book somewhere, I said. 'I did it because of prejudice and ignorance.' That seemed to be antisfactory. It settled the argument. At

ionst she stopped."

If Mr. Farjey was glways loval to the party of his parents, the party of the immi-trants of the last century, the party of the downtrodden, had it always been loyal to Had he ever thought of changing to the party of the Hoovers, the party of the Zisenhowers?

A shadow of certain and memories flick-

ered for an instant on the broad features of the tall ambassador of soft drinks.
"You know." he said, "there are some who achieve, who feel they have done it all alone. They forget that many others have sacri-aced for them. I have seen it many times, how a few gather around a man and how those few become thousands and then how those thousands become hundreds of thousands.

Sometimes the leader of the hundreds of thousands forgets the selfiess aid who railled the first few and the first few thousands.

"But I have never said that I have been anabblir treated by the leadership of my party. I did believe that I could have won the race for Senator in New York in 1956 if I had been nominated, and that I could have been elected Governor in 1960. I will never why Bob Wagner and the others op-i me. Yet I will never complain for I posed me. would not be here. I never would have gone anywhere, if it had not been for my party starting back there in Stony Point."

American Tuna Vessels Under Seizure by the Ecuadoran Government

EXTENSION OF REMARKS or

HON, BOB WILSON

OF CALIFORNIA

IN THE HOUSE OF REPRESENTATIVES Wednesday, June 5, 1963

Mr. BOB WILSON. Mr. Speaker, under leave to extend my remarks I wish to include a copy of a letter written to President Kennedy by Lester Ballinger, secretary-treasurer of the Cannery Workers and Fishermen's Union of San Diego, Calif., which lucidly outlines the increasing sentiment for immediate Executive action on behalf of the two American tuna vessels still under scizure by the Ecuadoran Government.

The letter follows:

May 31, 1962 resident Jone F. Renners. White House.

The second secon

Weshington, D.C.
DEAR MR. PRESIDENT: American sinkens, Sahermen, and boatowners are being detained and harmsted by Ecuador again. In cent years there have been numerous har-

Amonts of this nature, but this is by far From all we can find out, no topranking Government official has taken a firm stand in this Equadoran sovereignty water expansion program. Twenty-three vissels with approximately 14 crewmembers per versel are involved. We suggest that it is time for the U.S. Government to act, to stop this piracy once and for all. We suggest the following steps be taken:

1. That is top naval attache he dispatched to Ecuador to take charge of the situation

or a tep Government officials.

2. That naval versels be dispatched to stand oil the coust to show that we mean business.

That the topic of discussion be the immediate release by the Ecuadoran Govern-ment of the American tuna vessels and their crows, that Ecuador cease and design claiming their 40-mile sovereignty waters.
We think that the time has come for this

direct action, that if these steps are not puraued with forcefulness the American fisher. men will be forced from the high seas.

Sincerely and respectfully CANNERY WORKERS & FISHERMEN'S UNION.

LISTER BALINGER

Secretary-Treasurer.

What the Tobacco Ads Don't Tell You

EXTENSION OF REMARKS OF

HON. MORRIS K. UDALL OF ARIZONA

IN THE HOUSE OF REPRESENTATIVES Wednesday, June 5, 1963

Mr. UDALL. Mr. Speaker, since I introduced H.R. 5973, a bill to make the Federal Food, Drug, and Cosmetic Act applicable to smoking products. I have received letters of support from concorned people throughout the country.

I am convinced there is a huge reservoir of public opinion ready to make war on the techniques being employed by the tobacco industry. These people want the dangers of smoking highlighted. And they are becoming increasingly angry at the massive doses of advertising-most of it utterly absurb-being employed by the industry in its neverceasing quest for new addicts. Parents. in particular, are highly critical of advertising directed toward youth.

One of the most moving and eloquent statements on the hezards of smoking comes from Dr. Charles F. Tate, Jr., associate professor of medicine. University of Miami School of Medicine. He wrote the following:

> University of MIANIL SCHOOL OF MEDICINE.
> JACKSON MEMORIAL HOSPITAL Miami, Fig., May 16, 1963.

Hon. Monnie Unalt. House of Representatives, Washington, D.C.

DEAR REPRESENTATIVE - UDALL: I am tremely interested in your plan to inboduce legislation putting the entire question of UNITED STATES



OF AMERICA

Congressional Record

PROCEEDINGS AND DEBATES OF THE 88th CONGRESS FIRST SESSION

VOLUME 109-PART 17

NOVEMBER 18, 1963, TO DECEMBER 3, 1963 (PAGES 22015 TO 23188)

fashion

1973

bill. I wish to voice my opposition to binding the hands of the SEC in this

TOBACCO AND THE PUBLIC WELFARE

Mr. CHURCH. Mr. President, the Junior Senator from Oregon [Mrs. Neuhas written an important book entitled "Smoke Screen: Tobacco and the Public Wolfare." It deserves to be he book is only 136 pages long; it will take Serators no more than a course of is worth their time. It is well-written:

"Button of by psuedo-scientific jaccon
or still finteous moralizing Senator
Neutreon sticks to the facts the careor sent-transcous moralizing consider the carelike commines the evidence de exercite
moking by leading medical men all over
moking and concludes that he with
ease adminst cicarette smoking is indisputable. I suspect that few middles and
moralized the consideration of the co her book with an open mind will hold to a different conclusion.

Appendix Senator Nevarager is comi-zant of the facts and uses them fairly, she was not written a tedious at sairly ook From the first line. "Mice are untor Neusencer is a streamfind himar even in the sad facts about cicarette smoking. chieffer a good source for humor less in the devertising campaign of my cigarette companies. She properly casticass the high priest of hidden prista-sion and quotes one magazine which speculates that the next cigarette singing commercial will be:

The taste you ever did smoke; every a child's smoke.

This Dinpoints one of the most innia points of the cianette prob-lem—ine advertising campaign to ser-solescents to smoke senator Neutron quotes Dr. Michaels Shim-kin, succiate director for field studies of the Mana! Cancer Institute, who said:

Clearers advertising equates smoking eig-arctic with bravery, sexual virility and social states, and in view of this compaign it is little wouder that so many youngsters smoke.

Senator Neurencen's book went to press the most offensive cigarette commercial that I have seen made its op-pearance. How many American parents, who have teenage sons like I do, have winced when they heard that inane but carefully calculated jingle:

Luckies separate the men from the boys. but not from the girls.

I am sure that all reputable advertising people join in protesting this abuse of technique. As the trade journal, Advertising Age, proclaimed on August 26;

The Lucky Strike campaign is described as an effort to reduce the degree of youth ap-peal in eightette advertising. Yet such a claim must be made either in deep ignorance of youthful psychology, or else, in utterly brazen cynicism, since clearly its effect will be the opposite of that proclaimed. Anything which "separates the men from the means, in ordinary speech, something which is too tough a challenge for a boyand by that token, something a boy is likely

In a time when advertising prople are talking about self-policing by the industry, this kind of advertising can go a lang way toward convincing the public that salt-policing by admen is unlikely to be effective.

It is obvious that the form "utterly brazen cynicism" is appropriate in this particular case. But this incideous adertising campaign has not been dropped since Advertising Age correctly identified it: I suppose the increased digarette sales to adolescents more than make up for the criticism which the campaign might cause. One of the purposes of Senator NEVBERGER's book is to expose this kind of unscrupulous advertising directed at vouth.

Neither Senator NEVACRGER nor I. nor anyone else in Congress & know, proposes to interfere with an adult's right to smoke cinarettes, regardless of what the health hazard may be. But it is clear that cizarette smoking for many people is an addiction, especially if it is begun in youth. An adolescent, often plagued by the need to try to prove that he is grown up, is surely placed in a hard position to resist taking up the smoking habit, when he is constantly subjected to a ceaseless barrage of unprincipled advertising cquating manliness in spor's, sex, and sophistication with the smoking of X brand of cigarette. Senator Neuserger not only criticizes this rick trend in cigarette advertising, but also questions the strange silence concerning the facts of cigarettes and health, on the part of governmental agencies and much of our communications medic.

In her effort to be fair. Senator NEUerrore points out that some have acted responsibly in trying to bring the facts to public attention, citing among others. the Render's Digest. Consumer's Union. Time, Newsweek, the Atlantic Monthly, Harper's, the New Republic, the Nation, CBS, Edward P. Morgan, and LeRoy Collins.

Senator Neusenger has a four-point program which Congress should seriously consider: First, education of both the presmoking adolescent and the adult smoker: second, expanded research, in the technology of safer smoking; third, reform of cigarette advertising and promotion: and, fourth, cautionary and informative labeling of eighrette packages. Senator Neusenger's book and her concern in this important matter represent real services to the American people.

I ask unanimous consent to insert several articles at this point in the RECORD which either review or comment upon Senator Negserger's book "Report on Smoking Is Devastating" by Jack Anderson, which appeared in the October 31 issue of the Washington Post; an editorial "Smoking Education" from the October 21 issue of the Medical Tribune; a review by Donald Mintz from the November 8 issue of the Washington Evening Star: an article by Peter Bart entitled "Advertising: Cigarette Promotion Assailed" from the November 8 issue of the New York Times; an article by Caryl Rivers from the November 11 issue of the Baltimore Sun; and an article by W. H. Stringer which appeared in the Novemhell 14 1550 of the Christian Science

Stomfor J

There being no objection, the material was ordered to be printed in the RECORD. as follows:

[From the Washington (D.C.) Post, Oct. 31, 1963

REPORT ON SMOKING IS DEVASTATING (By Jack Anderson)

The tobacco tycoons are doing their best to delay and dilute the long-awaited Presidential report on cigarettes and cancer which should be ready to release by December 1.

Though einhorate precautions have been taken to make sure the report doesn't lesk out before it can be edited, this column can state that the individual studies contain overwhelming evidence that amoking can cause not only lung cancer but heart, stom-ach, bronchial, and other allments.

These studies are now being boiled down Dr. Peter Hamili of the National Library of Medicine into a report that should present a devastating case against the tobacco habit.

it will be submitted to pack-a-day smoker Anthony Celebrezze, the efficient, abullient Secretary of Health, Education, and Welfare. who hasn't concealed his lack of enthusiasm

for battling the tobacco interests.

He has made it pisin that he doesn't consider it "the proper role of the Federal Government to tell citizens to stop empoking."

He puts smoking in the same category as overesting and overdrinking, insisting privately: "I don't believe that the probibition of smoking by the Federal Government would be any more effective than the prohibition of

HEW spokesmen assured this column, however, that Celebrezze believes the Government has a duty to warn citizens against health hazards.

Celebrezze will send the report up to President Kennedy, who is even less anxious to get his fingers burned by the eigerette controversy. Certainly be has no desire to an-tagonize tobacco State Senators and Congressmen while his civil rights reforms and

LAX cuts are still pending.

When the cigarette subject was brought up at a May 1982 press conference, the President handled it like a butt that had burned down to his fingers.
"That matter is sensitive enough, and the

"That matter is sensitive enough, and the stock market is in sufficient difficulty without my giving you an answer." he hedged.

"" " Perhaps I would be glad to respond to that question in more detail next week." The following week, he turned the problem over to an advisory committee and announced happily that, "The aurrey would take some months or go into 1960."

The loudest howis about the Presidential report are coming from the Agricultural De-

report are coming from the Agricultural Department, which is more concerned about the If the retobacco crop than public health. port is made public on December 15, wall the marketing men, it might hurt the December tobacco auctions.

Secretary of Agriculture Orville Freeman, who amokes aparingly, is fearful that the report will reduce cigarette sales and dameer an important industry.

Apprenhension over the forthcoming re-port also is high at the Federal Trade Commission, which is responsible for regulating

mission, which is responsible for regulating dangerous and deceptive advertising. Eighteen months ago, the Commission acknowledged to Senator Mausine Neusencez, Democrat, of Oregon, that it has authority to crack down on tobacco advertising. The Commission put off her demand for action, however, by claiming it needed "competent ambaltims sectorities evidence."

probative actentific evidence."

This should now be furnished by the Presidential Committee, thus putting the Commission on the spot. It may have no alter-native but to require tobacco compenies of include a warning of the cigarette lares. in all their newspaper-magazine ads and Condep Tyronumercials.

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children's bureau publication no. 447-1966

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

WELFARE ADMINISTRATION

Children's Bureau

why **NICK** the CIGARETTE is NOBODY'S ABAHAN

Older Landond

DIOQUEED DY Roreword

CHILDREN'S BUREAU PUBLICATION NO. 47-49-96

For sale by the Superintendent of Documents, U.S. Government Printing

This pamphlet is written for boys and girls in the fourth and fifth grades. It tells how dangerous cigarette smoking can be.

Although not many young people of these ages we smoking more and more are taking up smoking parties and earlier.

We believe that if these young people get facts about health and the dangers of cigarette smoking, fewer of them will start to smoke.

Many persons helped the Children's Bureau in writing "Why Nick the Cigarette is Nobody's Friend." Among them were boys and girls in the fourth and fifth grades, teachers, doctors and others who work with children. The Bureau wishes to thank them for this help.

Kathering B. Delleys

KATHERINE B. OETTINGER Chief, Children's Burgan WELFARE ADMINISTRATION

THINK THAT SMOKING

WHY

should anybody think that smoking gives people glamour?

Nick, the cigarette, would like to have you believe that line. But instead, cigarettes can stain your teeth and fingers. They can give you bad breath and smelly clothes. This doesn't add anything to a bey's appearance, and it's not very dainty or attractive for a girl. Did you ever hear of anybody becoming more popular just because he or she smoked? It takes more than that! Nick's a sly one! No pal of yours.



WON'T HAVE NICK
ON THE TEAM

WHY

the coach won't have Nick on the team

Nick, the cigarette, is a sneaky kind of fellow. He wants you to think he is your friend. Really, he is nobody's friend. The coach doesn't want Nick on the team because smoking harms his team members. Coaches ask athletes not to smoke. They're smart. Athletes know that it is better not to smoke. They know that Nick is a bad bargain, because he is sneaky. You don't know what he is doing to you until it is too late.

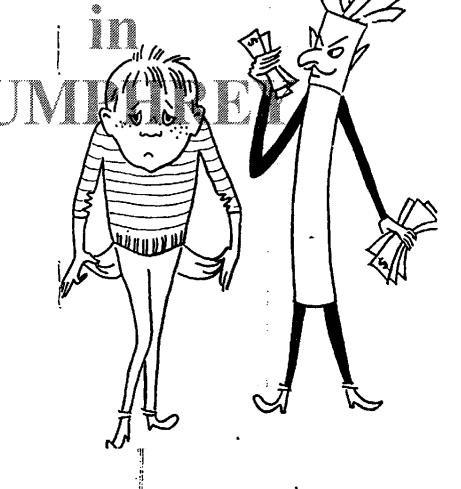


IS A GYP

WHY

Nick is a gyp

If you had \$1.00 to spend on just what you wanted, what would you buy? Name some things. Ice cream cones, candy bars, movie tickets? Or would you rather take a match and burn up that \$1.00? People who smoke burn up \$1.00 many times a year, or even every month. Would you want to burn up year money? When you are a little older someone might say you are silly because you do not smoke. But maybe he is the silly one for burning up his money.



produced by RJRTC

WHY GROWNUPS

CAN'T STOP SMOKING

WHY grownups can't stop smoking

Once we are used to doing something, it is hard to stop. Some people can't stop biting their fingernails. This is a bad habit and it is hard to stop it. Cigarettes are bad habits. Many people get used to smoking them and then find it is very hard to stop.

Most adults began smoking before they knew this could cause serious illnesses. Now the reasons are known and some people have stopped smoking but others who want to stop find the habit is too hard to break.

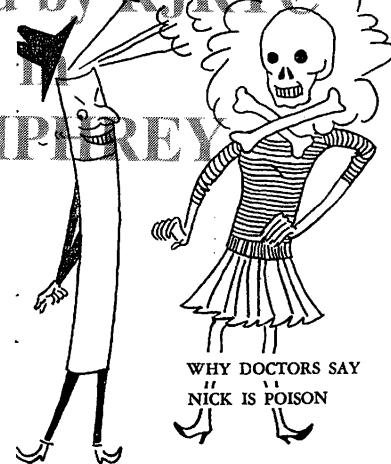


Dralacedby

WHY
doctors say
Nick is poison

Cigarette smoke contains poisons in tiny bits of tars and other chemicals. Nicotine is one of the poisons. These can cause serious diseases. When the smoke is inhaled—flows into the lungs—these bits of poison remain and can destroy your lungs' wonderful cleaning system.

From the nose down to the smallest air passage in your lungs, hundreds of tiny hair-like "cleaning brushes" (called cilia [SIL- ya]) are always moving. The dust and garms you breathe in, they push out through your nose and throat. Cigarette smoke can destroy them so that your lungs lose a first line of defense against disease.



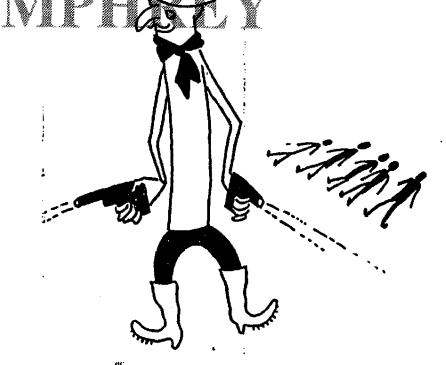
DIODUCED WHY SCIENTISTS

WHY scientists know that Nick kills

Scientists have studied people who smoke cigarettes. They also studied people who did not smoke. They find that cigarette smokers are much more likely to die earlier than are people who don't smoke.

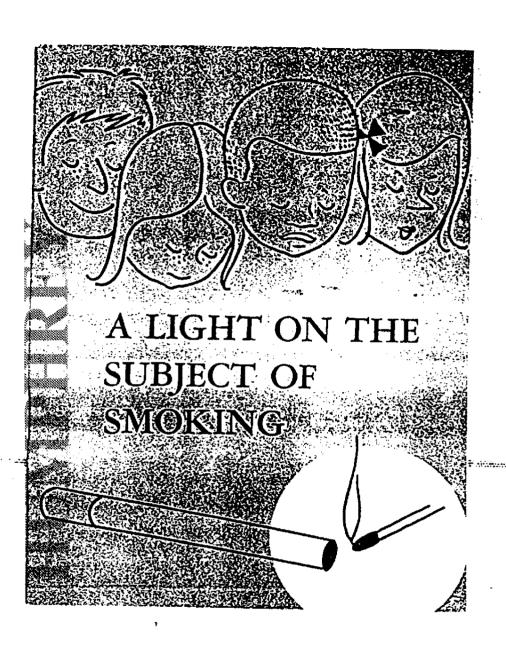
They've found some things about smoking that show it is very dangerous. Starting to smoke young, for example, is much more dangerous than waiting until later. The more years you smoke, and the more cigarettes you smoke, the more dangerous it is. All these things make it easier for you to get a serious disease.

& U.S. GOVERNMENT PRINTING OFFICE: 1964 O-224-556



KNOW THAT

NICK KILLS



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produced by RJRTC

children's bureau publication number 448—1966

HUIVI

This pamphlet is written for boys and girls in the extra and seventh grades. It tells how dangerous digarette smelling can be.

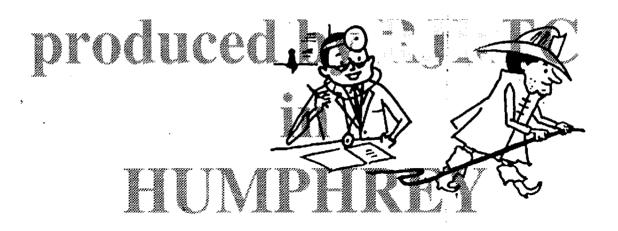
Although not many young people of these ages are smoking, more and more are taking up smoking earlier and earlier.

We believe that if these young people get facts about health and the dangers of cigarette smoking, fewer of them will start to smoke, and more will give up smoking.

Many persons helped the Children's Bureau in writing "A Light on the Subject of Smoking." Among them were boys and girls in the sixth and seventh grades, teachers, doctors, and others who work with young people. The Bureau wishes to thank them for this help.

Kothering B. Delleyn

KATHERINE B, OETTINGER
Chief, Children's Bureau
WELFARE ADMINISTRATION



some burning questions

ASK THE DOCTOR

How can cigarettes shorten a person's life?

Do cigarette smokers get lung cancer more often than nonsmokers?

ASK THE BANKER

How much money does a pack-a-day smoker save if he quits for a year?

•

profered by R.JRTC

ASK THE FIRE CHIEF

How many fires were caused by smokers last year?

How much was the cost of this damage?

Were people hurt or killed by these fires?

ASK THE COACH

Is there a "No Smoking" rule for the team?

Do cigarettes slow down an athlete?

If so, could this cost the team a game?

ASK YOURSELF

Does smoking make a boy or girl more grownup!

Does it make a boy seem more manly? Stronger!

Does it make a girl more attractive? More popular!

Some of the answers to these questions you will find on the following pages. Some of them are asked for you to find the answers for yourself. *it's smart to know the truth about smoking

Some day, you may have an important decision to make—whither or not to single. Your parents, teachers friends, the crowd you go with, all have opinious about this. But in the end, it is you who must think for yourself. Nobody can think for you.

It may seem early to be talking about this. But it isn't too early to get the facts straight so that you will understand clearly what the smoking habit is. Then, if the time comes, you can make up your own mind about smoking rather than blindly copying somebody else.

For years, scientists have been testing and studying cigarette smoking to find what it does to the human body. Is it harmful? If so, how, why? They have found that it is very harmful. So in 1964, the Surgeon General of the Public Health Service publicly announced this. And in 1965, Congress passed a law that a label on cigarette packages must warn you that cigarettes can be dangerous.

Smokers Who Start When They Are Young

Are Likely To

Die Much Earlier Than Nonsmokers

_

produced by RJRTC

why it's a bigger risk for young smokers

The younger a person is when he starts smoking, he bigger the risk that he may become sick at an earlier age. Studies show that the smoker who starts the cigarette habit before he is 15 or 20, usually goes on to

smoke cigarettes for more years, and inhales more deeply.

And the smoker most likely to become sick from or die as a result of smoking, is the one who

> smokes more cigarettes for more years, and inhales more deeply.

The earlief that anyone starts to smoke, the harder it is to stop smoking. People who start in their teens, or even younger, are the ones who often find that they cannot stop when they want to stop smoking.



the earlier you start the more serious it is

Year life might even be affected immediately if you snoke because smoking interferes with the normal breathing that you need for swimming, tennis, baseball, football, and other sports. Some young people who start to smoke in their teens may develop coughs and have short breath in their twentics.

If a person goes on smoking for years, these troubles can cause real health dangers. Scientists now tell us that cigarette smoking can lead to deadly and crippling diseases. They find that cigarette smoke is an important cause of:

Lung cancer, a disease that destroys the lungs, Chronic bronchitis (brong-KI-tis), a painful irrita-

tion of the airways to the lungs.

Cigarette smoking is also related to:

Emphysema (em-fuh-SEE-ma), a serious lung ailment,

Some heart and blood circulation diseases.

Don't Take a Chance—Don't Start!

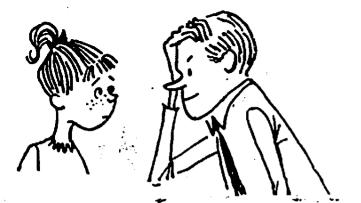
produced by smoking can destroy what's the harmin a cigarette

Cigarette smoke is harmful. It is a very complicated mixture of gases and chemicals. When smoke is inhaled, drawn into the lungs, bits of poison particles remain and make it hard for the body to do is work

Smoke contains tiny amounts of: 1750

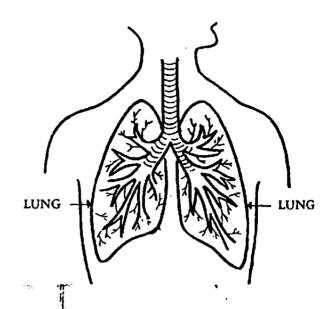
TARS—a mixture that forms as the tobacco burns. It coats the smoker's lungs and slows down the normal action. An average smoker inhales more than a quarter of a pint of tars from cigarettes in 1 year.

NICOTINE—which can be habit forming. It makes the heart beat faster and it quickens the breathing. This is a great handicap in all strenuous athletics. Nicotine is a poison that can kill instantly when in a pure form.



your lung's cleaning system

This is a very simplified picture of the lungs by which Very bacashe in order to live. Exom the nose down to the smallest air passage, the system is kept clean by hundreds of thing line like "stenning brushes" (called cilia (SIL-ya) that are always moving with a special upward action. This pushes dust and bacteria that you breathe in, outward through your nose and throat. But cigarette smoking slows down the tiny "cleaning brushes." It can destroy them so that your lungs lose a first line of defense against disease.



בּשְּקָּבֶ בּגַם בּעָּלָבְּ בּגַעָּלָבְּ בּגַעָּלָבְּ בּגַעָּלָבָּ http://legacy.library.ucsf.edu/tid/zrq07a@/pdfe: https://www.industrydocuments.ucsf.edu/docs/qtgl0001

project by RJRTC

the doctor's found smoking, "guilty!"

On January 11, 1964, the Public Health Service published a report that warned us that cigarette smoking is dangerous. For many years, scientists have been watching and reporting the rising numbers of deaths from lung cancer. Right along with these, has come a big increase in cigarette smoking. Was smoking the villain?

This question called for the opinion of experts. The Surgeon General appointed 10 of the country's outstanding doctors to act as a sort of jury, and to advise him. They spent more than a year going over scientific evidence. Then they reported. All of them voted smoking, "Guilty!"

Their report, called SMOKING AND HEALTH, startled the Nation because it was the first official warning from the Federal Government that smoking is an important cause of lung cancer and chronic bronchitis.



why some adults can't quit smoking

Most young people who smoke believe that they can give it up at any time. In the early stages, this may be true. But the longer they smoke, the harder it is to quit. Any adult moker can tell them that. If it is began in the teens or before, it is much harder to quit.

The habit gets a strong hold on some smokers. Scientists really do not know why some people can stop and some cannot. They are trying to find the reason why people start to smoke, why some people can stop and others, apparently, can't stop smoking.

Most adults began to smoke before they knew of its dangers. But now for many of them, the habit is too strong. Even if they want to stop, they can't.



does smoking make a girl or a boy more grownup?

Cigarettes can stain your teeth and fingers, give you bad breath and smelly clothes. This doesn't add to a boy's appearance. For a girl, smoking is not a claimty habit or really very attractive to boys.

Smoking doesn't make anyone look older. Id on ever see anybody become popular just because he or she smoked? It takes much more than that!

Gerry Lindgren, national collegiate champion distance runner says, "You can always spot real high school leaders. They are smart. They don't start to smoke." And another good high school athlete says, "You don't have to be a smoker to have fun and be recognized. Instead, develop your personality and if you have athletic ability develop it. Athletes are popular."

Besides, It Costs Too Much To Smoke!

Spend Money On Things You Can Keep

why coaches don't want the team to smoke

One of the great Olympic champions of our time, Rafer Johnson says, "Too many young people fail to see smoking as a problem for them N.W. Coaches ask heir players not to make because smoking affects their performance NOW."

Athletic coaches agree that eigarette smoking can damage an athlete's performance. Even though a smoker may be a fine, natural athlete, well-trained and skillful, he may find that he hasn't what it takes for that all important extra speed that wins. He'll have less than he might have had if he did not smoke.

"In a close finish between well-matched athletes, the nonsmoker has the edge," says the National Federation of State High School Athletic Associations.



A QUIZ Q Because of this can suppling cost the team a game!

the answers to some burning questions

- Q. Can cigarette smoking shorten your like
- A. Yes. All authorities in health and medicine agree that cigarette smoking shortens the life expectancy.
- Q. Are cigarettes the cause of serious diseases?
- A. Yes. Cigarette smoking is a cause of lung cancer and chronic bronchitis and related to other crippling and deadly diseases.
- Q. Can young people develop these diseases from smoking!
- A. People are beginning to develop these diseases earlier in life. People who begin smoking in their teens can have disabling diseases in their thirties and forties.
- Q. Why do coaches ask the teams not to smoke?
- A. Because smoking can affect the performance of an athlete and reduce his speed.

- A. Yes. In the last hard sprint to win a game, a smoker may find he hasn't what it takes to make that goal.
- How much does a pack-a-day smoker save (with interest) if he stops for a year.
- A pack-and costs about \$10 a month. numonings to about \$125 (with 4 percent interest) over a period of a vent.
- Q. Does smoking make anybody more attractive and popular?
- A. Smoking stains the teeth and fingers, gives one bad breath and smelly clothes which is not likely to attract popularity. Nobody has become popular just because he or she smokes.

13

CIGARETTE LABELING AND ADVERTISING—1965

HEARINGS

COMMITTEE ON

INTERSTATE AND FOREIGN COMMERCE

EIGHTY-NINTH CONGRESS

PIRST SESSION

ON

H.R. 2248

A BILL TO AMEND THE PRIMERAL FOOD, DRUG, AND COS-METIC ACT SO AS TO MAKE THAT ACT APPLICABLE TO SMOKING PRODUCTS

H.R. 3014, H.R. 4007, H.R. 7051

BILLS TO REQULATE THE LABELING AND ADVERTISING OF CIDARETTES, AND FOR OTHER PURPOSES

II.R. 4244

A BILL TO PROVIDE THAT CHARRETES SOLD IN INTER-STATE AND PUREION COMMERCE SHALL BE PACKAGED AND MARKED BO AS TO BEAR A WARNING THAT THEY MAY BE DANGEROUS TO DEALTH AND TO SHOW THE MICO-TIME AND TAK CONTENT OF THE CIGARETTES IN FACIL PACKAGE.

APRIL 6, 7, 8, 9, 12, 14, 15, AND MAY 4, 1905

Serial No. 89-11

Printed for the use of the Convittee on Interstate and Ferriga Commerce



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Now, if that is done, why do will him the your parties wante invitaless litigation than the other procedure.

Mr. Fino. Mr. Younger, we all know that whenever an agency of

government makes regulations, is lways invites litigation much more than when the Congress passes legislation, and what I am proposing here is that the Congress do this job, and the likelihood of litigation is much slighter than it would be if the agency did the job.

I think this is a responsibility of Congress and that Congress should pass this law. I say that the only question then would be the question of constitutionality, and you very seldom have that. Of course you cannot depend on the U.S. Supreme Court these days, but I would judge that there would be less litigation if the Congress did its jub. .

Mr. Youngen. Thank you very much.

Mr. Rooms of Texas. Would the gentleman yield for our quadion?

Mr. Youxuest. I yield the floor.

Mr. Rouges of Texas. Mr. Fino, is it your position that the Federal

Trade Commission has the power to do this!

Mr. Fine. I would say that they have some degree of power which we have given them to regulate this industry. However, I think, as I said in my statement, if they were to enforce this warning edict that they promulgated, that the tobacco industry would have them in court 24 hours a day for the next 10 years. However, if the Congress did the job, the chances are very, very slim.

Mr. Rourse of Texas. Thank you, Mr. Chairman.

The CHARMAN. Dr. Carter has a question.

Mr. CARTER. Mr. Fino, I take it that you are terribly upset by the use of tobacco by so many millions throughout the United States; is that true!

Mr. Fino. I am not upset about it. I am a firm believer in human nature, and I know it is human nature to smoke, and it is human nature to gamble. What I say is that as long as you cannot curtail gumbling and smoking and drinking, let us regulate it and control it. Mr. Carren. Do you use tobacco, Mr. Fino!

Mr. Fino. I smoke cigara.

Mr. Caurra. I believe you will find in the New England Journal of Medicine, June 1964, or about that time, that while they are not considered perhaps as causing as much trouble as eigereties, that they cause at least half that much. You favor labeling. However, you continue to use the word.

Thank you, sir.

Mr. Fino. May I say this to the doctor. If they had a warning label on the eigers that they are dangerous to your health, I might hesitate in smoking eight and might smoke four.

Thank you.

The CHAIRMAN. They might put a warning on there that it is a weed.

Mr. Rooney !

Mr. Itooxer. I have one short question.

Mr. Fino, I would like to sak you in your opinion, What is a safe

tar and micotine content?

Mr. Fino. Scientists have determined-I do not know the percentage they have determined that there is a level of safety, and if you look at, I think it was the Reader's Digest that had a report on this several years ago, in which they had the lar and nicotine content of all there cinemites that are being soft to the American public showing the layer at tar and missing and some of them were lower than the others. Said of course there is a safe level which I feel that the manufacture scould arrive at in making eigarettes safer for the public.

Mr. Rooker. Do you know that according to Mr. Dixon that he mundo the statement basically the study has hever arrived at what is safe and what is not safe! They have not arrived at what in smoking is the agent that really causes cancer.

Irmetro. 1 am familiar with Commissioner Dixon's position. I do not fully agree with it, but I have been supported in my position by the Rockwell Institute up in Buffalo which feels that we should bring to the public aftention the tar and meetine content and urgo by this competition all the manufacturers to reduce the level of their tar and meetine resident.

Mr. Richery, Thank you, Mr. Chairman.

Mr. Fike, Thank you, Mr. Chairman.

The CHARMAN. Does any other member have any other question of Mr. Finot

(No гезроняв.)

The CHARMAN. Mr. Udall, we are glad to welcome you also to the committee, and we will be glad to hear you at this time.

STATEMENT OF HOR. MORRIS K. UDALL, A REPRESENTATIVE IN CONGRESS FROM THE STATE OF ARIZONA

Mr. Unau. Thank you, Mr. Chairman. I have no prepared statement, and I know the committee has other important witnesses here, and if the smoking members of this committee will light up whatever they smoke and give me about 3 minutes, I think I can express my position on the bill I have sponsored. First of all I want to say that this great committee has done more in recent years in the fields of public houlth than has been done perhaps in this generation, and I think there is no more important matter before the Congress today than the matter the committee is taking up. I want to commend the chairman and the moniliers of the committee for continuing the investigation of this very important subject and the different legislative suggestions which have been made.

As the chairman indicated, my bill would place smoking products in the same clars as food, drugs, and cosmetics in the enforcement of the Federal Food, Drug, and Cosmetics Act. The effect of my bill would simply be to empower the Food and Drug Administration to establish standards for smoking products as they have for other products communed or used by the public.

I want to say at this point that I am not committed to my bill as the only approach to this problem. The introduction of my bill, which was originally sponsored nearly 2 years ago, was designed as an expression of my interest and my intention that something should be done about the very serious localth hazard posed by the use of tobacen products in this country.

Some may may that the approach taken by my bill is too mild, that it ignores the role of the Federal Trade Commission. Some may say that it is an extreme bill which could totally halt the sale of tolmoon because nicotine content exceeds levels that we now permit in food products.

This is not my intention, and I think no such strained interpretation on fairly be put upon the bill that have introduced because him would obviously be unworkable. I have us interprint the hind the sale of tobacco. I think we learned our lesson in the 1920's and the 1930's in attempting to outlaw the sale of alcoholic beverages. I think people are entitled to smoke it they wish to.

The Constitution guarantees us all these great freedoms including the frection to abuse our health and make fools of ourselves if we want to, and I do not intend to deprive people of these great freedoms.

But I am greatly concerned about the mounting death rates from the use of tobacco products, particularly eigerstics. I will not take the time to go over the statistics that have been given by my friend from New York, Mr. Fino, but I want to associate myself with the remarks that he has made. My particular concern is not, with adults because this is a habit that is hard to break. I do not think we are going to make too much change in the older generations, the people that have established this habit. The doctors have found that it is extremely difficult to break this, even with the best psychiatric and scientific knowledge that we have.

But I am concerned about the young people, the coming generations. I think labeling-I think giving the Food and Drug Administration some power to act in this field might do something about it.

I am satisfied from everything I have read that the annual death rate in this country which we can fairly attribute to smoking is 100,000 a year. This is a high figure. It is more than the lives that were lost in the atom bombing of Hiroshima. And while all the facts are not in, while all the facts are not in on drugs, all the facts are not in on space travel, all the facts are not in on the law of gravity—there is a lot we need to know in many fields enough facts are in to satisfy me as a citizen and as a Monther of Congress that there is a correlation between smoking and death and illness of the kinds that have been described before the committee.

And so I say that this is a very serious problem that deserves the attention of the Congress. I am pleased that the committee is con-

sidering legislation to deal with it. I would only make one further requests, Mr. Chairman, to save time. About 18 months ago I did a newsletter for my constituents on this subject in which I expressed by thoughts in more detail, and I would ask that this be made a part of the file or the record in the hearings.

The CHARMAN. Let it be included in the record along with your

statement. (The newsletter referred to follows:)

CONGRESSMAN'S REPORT

Mounts K. Upall, REGIND DISTRICT OF ARESONA

November 15, 1903.

IF THIS IS PEACE, WHAT WOULD WAS BE LIKE?

Suppose I began this report by reventing a secret plot to undermine the United States and take the lives of 100,000 or more Americans in the next 12 months. as many persons as were killed in the atms bombing of Hiroshims. Suppose I wild that this was actually a conservative estimate, that in fact the number of fatalities resulting from this evil plan next year might exceed a quarter of a talillon—say roughly the total number of Americans killed in battle in World War

11. Would you be stocked? Would you mant to been who and henched this ter-effile scheme? I described his sentil.

Int. 14th go a figite further. Supplied told you that persons in the bigheat places know along this plot but had those nothing about it. Suppose I sold that many of your fellow Americans were not saily aware of these facts but were coconspirators in the plot. Suppose I told you that, not just a few, but most of your fellow Americans were strendy sware of this cell design, and they didn't really cure. Suppose I said that many of your own neighbors, and perhaps memterrage year have household, would bely contribute more than \$7 lillion in the same 2-month period to carry out this man murier. Would you wouler about the against of the American people?

in fruit, there is such a piace. It may not be formulated in specific terms and written in dianguaring ink on old gum wrappers. But I'll tell you this: forms lated or not, conscious or not, deliberate or not, a program is going forward that inter of not, conscious or not, deliberate or not, a program is going forward that will lake 100,100 or more lives, this possing year, and every succeeding year, and ip it (100, 100), a subject of note in the note of the n

Nazi I'ariy, I'm taiking about the plan of the American tobacco industry to inre more and more young people to smoke eigarettes, to stimulate more and more adults to smoke more and more jucks a day, all in the face of mounting scientific evidence absoring that the end result of this massive sales effort will be cusualities in the next 3 to 10 years exceeding the total buttle deaths in all the worn we have fought aluce 1776.

Speaking as a percent, as well as a Congressman, I might express my reaction to these facts in some such manner as this: Who needs enemies when we have friends like the "Mariboro Bian"?

WHINE THANKS BROKE . . .

in years past people who campaigned against smoking could be classed either as (1) besith faddists, or (2) members of certain religious groups which discontrago amoking. Most people are neither, and then appears to young people to avoid the habit have fallen targely on deaf ears. All that is changing with the accumulation of massive scientific evidence linking smoking with lung cancer, complyments, cardioracular disorders and other diseases. The campaign against amoking has moved from the pulpit to the laboratory to the links of Congress. Let's look at some recently published facts:

In 1920 communiction of cicarettes in the United States was 750 for each adult, or about three-quarters of a pack a week. By 1901 this had incremed to 4,000 per adult, an average of about 4 packs a week for our entire adult

Medical tracarchers may that three-fourths of all lung cancer cases are caused by eigerette sunding. Among men who muste 2 packs a day, more than 26 will die for every monumenter who slies of the disease. Death atteluutable to lung cancer now total over \$6,000 a year in the United States.

A study by the U.S. Public Health Service last year corested a relationship between anothing during pregnancy and the accurrence of premature births. file is weight was found to very inversely with the historial of amoking dense by the mother during pregnancy. More startling relationships, such as infant breathing difficulties and other abnormalities, are likely to show up in

The mess U.R. Public Health Service reports that the death rate for regular numbers is 32 percent greater than for nonumbers. Among persons who manks regularly the ratio of double from cancer is approximately 10 times that of nonsinukers.

The Surgeon General of the U.S. Air Porce mid last year there is an everincreasing link between eigerrito anothing and cancer, palmoneary discount, enrollers acting disease, etc. Because of these facts be announced the Ale Pure no longer will permit eignrette compunies to make free distribution of

their products in Air Force bounding and flight innehen.

A study published by the Scientific American last year revealed that out of ZMI deuths among clearetto unders fried by cormary artery disease, only 1,973 would have died had they hern nonmotors. That meant that more than 40 percent of the dentise in this group were attributable to

45-924-45----

HEARINGS

BEFORE THE



COMMITTEE ON

INTERSTATE AND FOREIGN COMMERCE

HOUSE OF REPRESENTATIVES

NINETY-FIRST CONGRESS

FIRST SESSION

ON

H.R. 643

A BILL TO AMEND THE FEDERAL CIGARETTE LABELING AND ADVERTISING ACT WITH RESPECT TO THE LABELING OF PACKAGES OF CIGARETTES, AND FOR OTHER PURPOSES

(And Similar Bills)

H.R. 1237

A BILL TO DIRECT THE FEDERAL COMMUNICATIONS COMMISSION TO ESTABLISH REGULATIONS PROHIBITING CERTAIN BROADCASTING OF ADVERTISING OF CIGARETTES

(And Similar Bills)

H.R. 3055

A BILL TO STREET HEN THE FEDERAL CIGARETTE LABELING AND ADVERTISING ACT

(And Similar Bills)

H.R. 6543

A BILL TO EXTEND PUBLIC HEALTH PROTECTION WITH RESPECT TO CIGARETTE SMOKING AND FOR OTHER PURPOSES (And Similar Bills)

APRIL 15, 16, 17, 18, 21, 22, 23, 24, 25, 28, 29, 80, AND MAY 1

Serial No. 91-10

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WASHINGTON: 1969

utmost confidence that the action taken by the Congress will be honest and Just and fair to the industry and to the millions who depend on it for their livelibood, and I trust the judgment of this Committee to report IIR 7177 to the Full House for their consideration—and no doubt—passage.

STATEMENT OF HON. EARL R. CUTS, RESERVATING OF CONTROL

Mr. Chairman and members of the Committee, I appreciate the opportunity to present my views to you today as a co-sponsor of H.R. 7177 and to arge that you take appropriate action to assure that the Federal Communications Commission does not exceed its jurisdiction in the issue of cigarette advertising on radio and television.

Early this year the Congress was advised by the Federal Communications Commission that the agency was proposing to institute a ban on such advertising when the present law governing the matter expires on July 1, 1959.

While there are several controversia, aspects to this issue, I wish to address

myself solely to the question of legal jurisdiction over the matter.

First of all, I feel the Commission is being very discuminators when it week out one industry to deny it the right to advertise its godier. They have made this more against a product which is legally grown, legall manufactured, and legally sold throughout the United States. Why then does it become lifegal by decision of the FCC to advertise this product?

In announcing its proposed ban, the FCC suggests it will not in the absence of contrary Congressional direction on the expiration of the present law which now directs the Commission how it is to act. This very phraseology indicates the Commission's awareness that Congress is the final authority in this area. I believe that the representatives of the people should maintain the final say in matters of such great importance to so many people. I believe it to be the jurisdiction of Congress to debate the issue, render its decision, and direct the Federal Communications Commission, or the Federal Trade Commission, or any other pertinent regulatory agencies as to what action it may take in the interest of the people.

In conclusion, I would ask the Committee this question:

If the Federal Communications Commission is permitted in this instance to usurp powers that rightfully belong to Congress, what product would then be safe from future arbitrary discrimination?

The CHAIRMAN. Is Congressman Jeffery Cohelan here! Welcome, sir, please proceed as you see fit.

STATEMENT OF HON. JEFFERY COHELAN, A REPRESENTATIVE IN CONGRESS FROM THE STATE OF CALIFORNIA

Mr. Conelan. Thank you, sir. Mr. Chairman, as a cosponsor of the Federal Cigarette Labeling and Advertising Act, I want to add my strong support for H.R. 1236, introduced by my distinguished colleague from California, John Moss.

I feel that it is time for some very plain speaking on this subject. The U.S. Public Health Service, the World Health Organization, the Royal College of Physicians in Great Britain, and many independent research organizations testify to the fact that cigarette smoking is a causative factor in lung cancer, emphysema, and some forms of heart disease.

Our task, of warning young people before they start to smoke and of encouraging those already addicted to reconsider their habit in light of the facts, is not easy. For me, its magnitude was dramatized by the American Medical Association's announcement in 1965 that each year Americans smoke about 500 billion cigarettes—the equivalent of

over seven cigarettes a day for every man, woman and child.1 The Internal Revenue Service has since revised that figure upward every year save one, and we now know that in 1968 our national consumption was 546 billion eignrettes.

The attract of packaging and advertisements which link smoking with that which is desirable and boutiful in life make the task even more difficult. In the electronic ago, then the medium may be the message the joys and benefits of smoking are all too vividly portrayed. Countering that message with the unpleasant fact that eigarettes are

dangerous to health is the purpose of our bill.

It does not make illegal the smoking or possession of eigarettes; it des not forbid their advertisement. It does require the manufacturer and advertiser to list the tar and nicotine content and to state the following on each package and ad: "Warning: Cigarette Smoking is Dangerous to Health and May Cause Death from Cancer and Other Iscares: Also, is authorized the Secretary of Health, Education, and Welfare to again to the length of cigarettes if a causal relationship with health hazneds is established.

Mr. Chairman, our experience with the 18th amendment, of trying to legislate personal drinking habits, was not successful; we would be no more successful trying to prohibit the smoking of eigarettes. It may be debated, too, whether we should forbid entirely radio and TV

advertising of cigarettes.

But there is no question of the necessity to insist now that all potential users be provided with the facts about a product so potentially detrimental to their health. Medical World News, in a recent article, reminds us that heavy cigarette smokers lose about one minute of life for every minute they smoke.2

This is a sobering statistic, Mr. Chairman, and I respectfully urge that your committee report favorably H.R. 1236, as a means of helping the American public to understand that statistic fully.

The CHAIRMAN. Thank you Mr. Cohelan, for the benefit of your

views.

Are there any questions?

The next witness will be Congressman Edward I. Koch from New

Do you have a prepared statement?

STATEMENT OF HON. EDWARD I. KOCH, A REPRESENTATIVE IN CONGRESS FROM THE STATE OF NEW YORK

Mr. Kocn. Yes; I do.

The CHAIRMAN. I wonder if it is long.

Mr. Kocn. It is not terribly long, and I will be brief.

Mr. Chairman, I very much appreciate this opportunity to testify in support of H.R. 1236. I support this legislation because it is intended to discourage smoking. I do not believe that it is practical to make smoking illegal. But I do believe it is feasible for the U.S. Government to make every effort to discourage the children of this coun-

I Today's Health Guide, published by the American Medical Americation, 1985, p. 454, 2 "How Goes the War on Smoking?" Medical World News, Feb. 14, 1989.

try from taking up the habit, and alerting the adults to the dangers

they face by smoking.

I have joined with 18 Congressmen in support of the FCC's proposal to ban cigarette advertising on radio and television. In the course of forming that ad hoc group, I have had some interesting correspondence with some Members of this longress and represent conditionencies that would be economically adversely affected in the creat factor. were to be a decline in cigarette smoking. I am annexing to my statement a copy of that correspondence namely my letter of February 7, 1969, the reply to that letter sent by the Members representing the State of Kentucky dated February 26, 1969, and my reply to it dated

The thrust of the opposition to banning cigarette advertising as appears in the letter from the Kentucky delegation is basically that in the judgment of those Members, there is not sufficient exidence indicating a correlation between eigarette smoking and the values tistes ses to the heart and lung and other parts of the body I am very conscious of the economic damage that would flow from the diminition of cienrette smoking in this country. As I pointed out to the Kentucky delegation, we pay subsidies to farmers not to grow food even while there is a world shortage and people in this country suffer from hunger and malnutrition. Would it not be feasible to pay our farmers similar subsidies not to grow substances like tobacco where the evidence indicates it to

be an unhealthy substance—indeed a kind of poison.

In response to the comment by the Kentucky delegation that there is not sufficient proof showing the direct connection between smoking and the diseases allegedly related thereto, and the particular complaint that such claims are merely based on statistics-I reply that it was through such statistics that we know vaccinations prevent polio, smallpox and diptheria; that antibiotics cure many bacterial infections; that the pastuerization of milk and purification of water prevent many diseases. It was through statistical observation that we established the relationship of the drug thalidomide, taken by women in pregnancy, to the birth of deformed babies. An ominous report recently was released by researchers at Columbia University who have, according to the New York Times dated March 21, 1969, "demonstrated experimentally in animals how smoking during pregnancy can harm unborn babies. Two years of laboratory tests with pregnant Rhesus monkeys have shown that nicotine introduced into the bloodstream of the mother impairs the heart rate, blood pressure, oxygen supply and acid balance of the unborn infants."

That same report also said, "Other statistics have shown that the weight of newborn babies of mothers who smoke is about 6 ounces less than the weight of infants born of nonsmoking mothers." Statistics are the heart of medical research as indeed they are an important basis for congressional legislation. For me, a most striking statistic is the one which indicates that a young man at age 25 who smokes two packs of cigarettes a day will have a life expectancy, on an average of 8 years less than that of a young man of similar age

who does not smoke.

I am even more distressed, Mr. Chairman, having read a news report on March 21 of this year, that Agriculture Secretary Clifford

M. Hardin has approved a 1-year extension of a \$210,000 Government subsidy to help pay for cigarette advertising programs in Japan, Thailand and Austria. I think it is outrageous that the American taxpayer should be taxed to pay for cigarette advertising and thereby spread disease and maken merce in other countries.

This is particularly abhorient when the FCC is seeking a ban of such advertising in this country. Our children and their children are to precious to waste this way. Far to be preferred would be an expenditure of this amount, and 10 times it, to spread the word that the federal government wants its young citizens to know that smoking zaisaleleterious. Yes, let the Federal Government advertise, but in suppart of health, not to destroy it. I am annexing, Mr. Chairman, a copy Make letter which I have sent to Agriculture Secretary Clifford M. Hardin indicating my opposition to what he is doing.

The statistics indicate that 4,000 children every day are newly linker of smoking. I dan't believe that the addition of the notice of the park of conecites, as proposed under H.R. 1236, will appreciably decrease the appound of smoking, but it will be a step in that direction. If I had my druffiers, I would put a skull and crossbones

on that pack of cigarettes.

Mr. Chairman, there is a strong body of medical opinion which believes that eighrette smoking is not only psychologically but physiologically addictive, comparable to heroin addiction. I would suggest to this committee that it hold hearings on that very subject; and if as I believe it will be established that such is the case, then there ought to be legislation which would require that the warning on the pack of eigarettes also indicate the danger of addiction.

A STATE OF THE STA

Mr. Chairman, until stronger bills are introduced, I support the pending legislation. And, I should note that even though I support H.R. 1237, I believe that the FCC already has the authority to ban all cigarette commercials on radio and television. I only believe that this bill provides a means for the Congress to express the urgency in climinating these advertisements and to prod the FCC in doing so.

If I may extemporize and I will endeavor to be very brief. Much reference was made to the first amendment. The first amendment closs not cover product commercials and we ought to understand that

and there are cases to that effect.

Another aspect of regulation is the resistance that you find by every industry when it is subject to prospective controls. The color television industry gets very distressed when we inquire into the problem of X-rays that exceed tolerance levels because raising the problem might cause people to buy less of a product or might demand more of a product before they buy it.

The automobile industry was opposed to the safety regulations that

ultimately this Congress demanded and required by law.

I would like to comment on a statement made by the distinguished chairman of the North Carolina delegation who made a very effective speech on behalf of his constituents. I do have constituents, too. The television media are located in my area. They are the ones who say they are going to suffer the loss of revenue and big cigarette companies are located in my congressional district. But there is an overriding constituency to which we must all respond. The health

MICHAEL E. PARRISH

Professor of History University of California, San Diego Lo Jolla, California 92093

June 27, 1997

(RE

Arch, et al. v. The American Tobacco Company, et al., United States District Court for the Eastern District of Pennsylvania, Civil Action No. 96-5903-CN

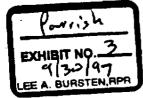
WHOM IT MAY CONCERN:

Enclosed please find a copy of my Curriculum Vitae which lists my educational background.

professional experience and also contains a bibliography of all the materials I have published from 1970 to present. As my Curriculum Vitae reflects, I received a Ph.D. from Yale University, in 1968, and have been a Professor of History at the University of California, San Diego from 1969 to present. I am being paid \$125,00 per hour to develop my testimony in this matter. I have not testified or been deposed in any other matter.

My opinions are traced on my education, training and experience in the field of history and a review of the: documents produced by the plaintiffs in this matter; documents obtained independently from the State of Pennsylvania, regional and local health agencies and organizations, state departments and agencies, public archives and libraries both inside and outside Pennsylvania, and third-party organizations acting within the state; the depositions of the various experts identified by plaintiffs in this case; the educational laws, curricula and textbooks used in Pennsylvania throughout the years; media coverage of smoking and health issues including articles appearing in Pennsylvania newspapers, national newspapers, magazines, and other periodicals; national and local least reports regarding smoking including Reports of the Surgeons General; movies, cartoons, public opinion polls.

I expect to testify regarding the history and evolution of cigarette smoking in the United States in the Twentieth Century and the various social, cultural, and technological developments that impacted cigarette consumption. Throughout history, tobacco and cigarettes have been the subject of heated and visible controversy, and often, widespread condemnation. I anticipate testifying that much of the attention cigarettes have received has manifested itself in claims that cigarette smoking can be dangerous to health, even fatal, and that it is a habit which for some can be difficult to break.



I may also testily regarding the opinions expressed by other witnesses in this case, as well as the evidence upon which they rely.

Very truly yours,

MICHAEL E. PARRISH

@ 333600

MICHAEL E. PARRISE

Professor of History University of California, San Diego LaJolla, California 92093 (619) 534-1996

PERSONAL INFORMATION

Date of Birth: March 4, 1941, Huntington Park, California.

Citizenship: United States

Home Address: 3525 Lebon Drive, #213

San Diego, California 92122

(619) 535-0427

EDUCATION

B.A., 1964, University of California, Riverside (With High Honors)

1966, Yale University, New Haven, Connecticut

PA.D., 1968, Yale University, New Haven, Connecticut

ACADEMIC HONORS AND AWARDS

Woodrow Wilson Fellowship, 1964-65

Woodrow Wilson Dissertation Fellowship, 1967

American Council of Learned Societies Fellowship, 1973

National Endowment for the Humanities Fellowship, 1974

Liberal Arts Fellow, Harvard Law School, 1974

MEMBERSHIPS

American Historical Association Ninth Judicial Circuit Historical Society American Society for Legal History

PROFESSIONAL EXPERIENCE

Teaching Fellow, Yala University, New Haven, 1967-68

Assistant Professor of History, University of California, San Diego, 1968-73

Associate Professor of History, University of California, San Diego, 1973-1981

Professor of History, University of California, San

ecturer, Johns Hopkins Center for Chinese and American Studies, Nanjing, China, December 1989

ADMINISTRATIVE EXPERIENCE

charman, Department of History, University of California, San Diego, 1985-88, during period of rapid faculty growth, including addition of two andowed chairs and new programs in Judaic Studies, Japanese studies and history of science.

Director, Urban Studies and Planning Program, University of California, San Diego, 1983-85, an interdisciplinary program of 150 students, with faculty from history, sociology, economics, and political science.

Member, Committee on Academic Personnel, University of California, San Diego, 1976-78, 1980, campus-wide faculty committee with jurisdiction over all appointments and promotions.

*** ******

Member, Committee on Educational Policy, University of California, San Diego, 1975-76, 1980-81, campus-wide faculty committee with jurisdiction over all undergraduate and graduate courses and programs.

Member, Executive and Policy Committee, Academic Senate, University of California, San Diego, 1982-84

Chairman, Select Faculty Committee on UCSD Law School, 1984

Chairman, Faculty-Administrative Committee on Subject A and English Composition, University of California, San Diego, 1985.

Divisional Representative, All-UC Academic Assembly, 1983-85, the state-wide legislative body of the UC Froulty.

PUBLIC SERVICE

Hembar, Encinitas Union Elementary School District,

pirector, San Diego County Water Authority, appointed to seven-year term by Mayor of the City of San Diego.

TEACHING FIELDS

American Legal History

Constitutional History of the United States

3

American Politics and Culture in the Tventieth Century

The Gold War

The Great Depression

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Michael E. Parrish, Review of Richard Polenberg's Fighting Faiths in Constitutional Commentary, 6 (Winter, 1989), 190-94.

Other book reviews have appeared in The American Historical Review, Reviews in American History, The American Journal of Legal History, The Pacific Northwest Quarterly Review, The Journal of American History, and the Los Angeles Times.

Work in Progress

I. Books

* ********

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Michael Parrish, The Last Liberal: A Life of Joseph L. Rauh, Jr. (New York, W. W. Norton, sometime in mid 1990s).

PROFESSIONAL CONFERENCES

Participant, First Berkeley Seminar on Federalism, 1987.

"Felix Frankfurter and American Federalism," Second Berkeley Seminar on Federalism, 1988.

Chairman-Director, "The State of American Legal History," a Conference Sponsored by the UC Humanities Institute and UCSD, LaJolla, October 1988.

"Felix Frankfurter and the Warran Court," Georgetown University Conference on the Warran Court, February, 1990.

References-Academic

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Professor G. Edward White School of Law University of Virginia Charles ville, Virginia 22903

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Dean Arts and Humanities
UCSD

LaJolla, California 92093

Patrick J. Ledden Provest John Muir College UCSD LaJolla, California 92093

SUPREME COURT OF THE STATE OF NEW YORK COUNTY OF NEW YORK

JOSEPHINE STEWART-LOMANITZ, SHARLENE HOBERMAN, LOUIS CRUZ, and AUDREY HULSE on behalf of the Estate of Lewis Hulse, individually, and on behalf of others similarly situated,

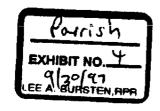
Index No. 110953/96

Plaintiffs.

BROWN & WILLIAMSON TOBACCO
CORPORATION, B.A.T INDUSTRIES P.L.C.,
BATUS, INC., BATUS HOLDINGS, INC.,
COUNCIL FOR TOBACCO RESEARCH-USA,
INC. (Successor to Tobacco Industry Research
Committee), and TOBACCO INSTITUTE, INC.,

Defendants.

AFFIDAVIT OF MICHAEL E. PARRISH



MICHAEL E. PARRISH, being duly sworn, deposes and says:

I am a professor of history and chairman of the department at the University of California, San Diego, where I have taught for 27 years. I hold a B.A. degree in history from the University of California (Riverside, 1964), and an M.A (1966) and Ph.D. (1968) in history from Yale University. I am the author of three books and several dozen articles with expert knowledge is the political and social history of the United States since the Civil War.

Conducted extensive historical research on the issue of tobacco use, especially cigarette smoking and health, with attention to the question of public awareness and popular understanding of the relationship between cigarettes and addiction. My research has focused both upon public awareness in the United States as well as major states such as New York and California. These efforts have included research in the following primary and secondary sources:

- a. Major newspapers and periodicals, including the publications of leading anti-tobacco organizations.
- b. Festeral and state government documents, including state legislative hearings, Congressional hearings, and state and local public health agencies.
 - c. Public school textbooks, especially those relating to health;
 - d. Autobiographies, diaries, memoirs, and fictional literature;
 - e. Manuscript collections, especially those of leading anti-cigarette reformers such as

Anthony Zelaney, David Starr Jordan, and John Harvey Kellogg; and

f. Motion pictures, cartoons, and television documentaries.

For the purposes of this affidavit I have focused my research and conclusions upon the issue of public awareness concerning the addictive nature of tobacco (especially cigarettes) in New York Gity and state and the United States in the twentieth century. Although the Surgeon General of the United States and other medical experts did not state their judgments about nicotine addiction until the late 1980's and early 90's, popular awareness of the possible connection between smoking and addiction has deep roots in American culture reaching back even to the colonial period. Before the post World War II era, ordinary people frequently linked tobacco with other narcotic drugs. Their use of such terms as "bondage," "fetters," "cigarette slave," and leigarette addict" leave fittle doubt that popular knowledge was saturated with the belief that smoking is a habit that can be extremely difficult to break. In the twentieth century, cigarette smoking added many new words to the slang vocabulary of Americans across the country. And these slang words asually suggested addiction: "little white slaver," "nicotine addict," "account fiend," "fag fiend," "nicotine fit," "cold turkey," "hooked," and "hooked on the weed."

When exploring popular understanding and common knowledge about a subject such as cigarettes and addiction, good historians will keep in mind this distinction between what trained scientists know and expressed and what the man or woman in the street assumed to be the truth

¹ See "The Health Consequences of Smoking," Nicotine Addiction—A Report of the Surgeon General of the United States (Washington, D. C., 1988); and C. Tracy Orleans and John Slade, Nicotine Addiction: Principles and Management (New York, 1993), 40.

of the matter. This was observed in 1964 by John A. Moore in a popular book advising people how to lick the cigarette habit: "Inhaling cigarette smoke through our lungs for the brain stimulation it gives, is definitely an addiction for many. . . . Whether we call it habit, habituation or addiction, makes no difference. That is only a matter of terminology."²

Moore wrote several decades before the Surgeon General's report in 1988, but his views had long been incorporated into the popular imagination of Americans for over a century.

The historical evidence, presented in this affidavit, is simply overwhelming that in America, popular awareness of cigarettes and their "addictive" potential was often ahead of technical and scientific opinion on the subject. A representative sample of this evidence, with particular attention to common knowledge accessible to people living in New York City and state is presented in what follows, arranged both chronologically and by source.

Pre-1900: Tobacco and Addiction

twentieth century, the belief that tobacco use generated dependency was a staple of popular though in America. Writing his Directions for a Candidate of the Ministry in 1726, the famous Puritan stergyman Cotton Mather warned that "if once you get into the way of Smoking, there will be extreme hazard, of your becoming a Slave to the pipe; and ever insatiably craving for it."

² John A. Moore, How to Stop Cigarettes for Life (New York, 1964), 42.

³ Cotton Mather, Directions for a Candidate of the Ministry (Boston, 1726), 46.

A hundred years later, John Quincy Adams, the former President of the United States, observed to Dr. S. H. Cox that "in my early youth I was addicted to tobacco in two of its mysteries--smoking and chewing. I was warned by a medical friend of the pernicious operation of this habit . . . and the advice of the physician was fortified by my own experience." Adams prayed that others would cease the habit and thereby "turn every acre of tobacco-land into a wheal-field, and add five years to the average human life." The original of this famous letter is maintained in the New York City Public Library's George Arents Collection, one of the most important archives on tobacco and smoking in the world.

That Americans of the mineteenth century routinely used the metaphor of slavery and enslavement to describe tobacco's perceived habituating qualities. As Oliver Wendell Holmes expressed it in 1858: "Let me assure you, the stain of a reverie-breeding narcotic may strike deeper than you think for I have seen the green leaf of early promise grown brown before its time under such Nicotian regimen—at the cost of a brain enfeebled and a will enslaved." The Rev.

J. B. Wight schoed Holmes: "Such is this tobacco-slavery, and it numbers among its victims more persons than were ever captured in war in Attica or were brought from Africa in ships."

In addition to equating tobacco use with slavery, Americans of the nineteenth century usually equated it with both alcohol and other narcotic drugs, again suggesting its capacity for addiction, a concept frequently employed:

⁴John Quincy Adams to S. H. Cox, quoted in J. B. Wight, *Tobacco: Its Use and Abuse* (Columbia, South Carolina, 1889), 204-05.

⁵ Oliver Wendell Holmes, The Autocrat of the Breakfast Table (Boston, 1858), 116.

⁶ J. B. Wight, Tobacco: Its Use and Abuse (Columbia, South Carolina, 1889), 180.

-"The condition of those who habitually use tobacco may be expressed in the word 'drugged' Then they realize that they are bound in the chains of a nervous appetite . . . [that] makes them feel like slaves who rattle their chains, but know not how to snap the fetters that have been slowly twined around them."

--"Indeed, tobacco and alcohol go hand in hand. One almost never finds a case of a man addicted to the use of intoxicating liquor who is not also an inveterate consumer of this narcotic."

Beginning in the 1880s, the New York Times became a regular source of news accounts and opinion pieces that focused on the habit-forming character of tobacco consumption. Here are a few examples:

of the simplest and easiest things in the world, but, in point of fact, it is one of the hardest, and countless plans have been devised for aiding the smoker to break his chains by easy degrees."

It is very rare to find a man who is over-fond of spirits who is not addicted to

_"The tobacco was stopped, and then followed a season of derangement and visions, less

From The Health Reformer, 5 (1870), 291.

Other Otte Smith Angstman, "The Power of the Tobacco Habit," Good Health, 33 (December 1898), 780.

⁹ New York Times, March 25, 1880, page 4, column 5.

¹⁰ New York Time April 5, 1880, page 4, column 6.

intense and terrorizing than those belonging to the alcoholic frenzy."11

- -"Cigarettes were at first regarded as an exclusively Turkish product and addiction to them was accounted a mark of personal distinction." 12
- --"Last week, determined to break up the habit which had so taken possession of the boy, his parents effectively shut him off from every source of tobacco."

B. The Twentieth Century: Cigarettes and Addiction

The triumph of the signrette as the dominant form of tobacco use in the twentieth century generated a broad-based, popular opposition movement. Between 1900 and the 1990's, the anticiparette forces achieved notable success in curbing access to cigarettes, stigmatizing smokers, and reducing the incidence of smoking by tapping into the already existing themes of addiction and by increasing public awareness about the perceived health consequences of smoking. While the anti-cigarette movement achieved its greatest triumphs in the decades before World War I and again in the three decades since 1960, there has never been a time in this century when the American tacked popular information about the "addictive" character of cigarettes. These themes literally saturated popular culture, spread by newspapers, periodicals, self-help literature, school textbooks, official government reports, and motion pictures.

New York City became a major center of anti-smoking efforts from the turn of the

¹¹ New York Times, April 8, 1882, page 4, column 3.

¹²New York Times, February 8, 1883, page 6, column 2.

¹³New York Times, September 27, 1890, page 3, column 3.

Even during the years from 1930 to 1950, when anti-cigarette sentiment reached its lowest point in the twentieth century, those who continued to advocate regulation or abolition stressed the issue of addiction. In 1938, for example, Consumer Reports, a major national publication with large circulation in New York, assured its readers that "if you smoke merely to be sociable and don't crave a sigarette when you're alone, then you're not addicted to nicotine." The landmark issue of the same magazine in 1953 took the addiction question to be self-evident:

"The issue is not whether tobasso is habit forming—since everyone is agreed that it is. The issue

Pullman cars in interstate commerce. He became notorious for making arrests himself of those caught violating the subway prohibition on smoking.

¹⁵New York Tribune, February 20, 1921. Pease appears to have believed that McKinley would have survived the attack 'had he not had a tobacco heart.'

¹⁶ Consumer Reports, July 1938, 13.

is whether the tobacco habit is so harmful as to require a serious reduction in smoking or even complete abstinence."¹⁷

In short, the current focus in public policy and popular understanding on addiction and cigarette smoking is simply a reprise of very old concerns dating back nearly a century, themes that consistently singled out nicotine as the "addictive" agent in tobacco and equated the cigarette habit with drug dependency. Broken down by category, here are other representative examples, although space does not permit a full accounting of my research in these various forms of popular communication:

1. Newspapers of General Circulation

New York Times—Being an addict to the practice [of smoking] gives me a good chance of comparing the symptoms as discovered in others. . . . What causes the craving for more tobacco when one has become an addict to it many will ask. . . . The second is that once you have developed the stomach that craves the effects of tobacco, you have the same craving as when you are hungry, and then begin to call for more."

Even before the landmark Surgeon General's Report in 1964 warned of health hazards of sigarette smoking, especially lung cancer, the New York newspapers routinely contained stories about such dangers, including addiction to nicotine. The health problems posed by cigarettes apparently knew few ideological boundaries, even during the height of the Cold War. The communist Daily Worker, for example, reporting on official opinion in Moscow,

^{17 &}quot;Cigarettes," Consumer Reports (February 1953), 74.

¹² New York Times, December 18, 1927, page 3,5, col. 1.

called smoking "a noxious habit" in 1955, because it deposited in the lungs "a lethal dose of nicotine" in addition to damaging the nerves, stomach, heart, memory, and legs. 19

New York's leading newspapers gave extensive coverage to anti-cigarette advocates in the 1950's. Dr. Alton Ochsner, a long-time critic, denounced filter-tipped cigarettes in 1957 and urged the manufacturers to produce tobacco without nicotine. This was not done, Ochsner claimed, "because [nicotine] that's what gives the smoker a boost." Dr. Harvey Flack, editor of the British Medical Association Magazine told New Yorkers there had been little change in smoking habits: "It is difficult to give up smoking," he lamented. It is easier never to start."

York World Telegram and Sun soncluded, "A smoking parent might explain to a teen-ager that he got into the grip of the habit before all the facts were known. I wish I were able to give it up,' the parent might say. The fact that I don't seem to be able to stop is another good reason for you not to establish the habit yourself." A year later, the paper reported on a workshop sponsored by New York University aimed at reinforcing "attitudes against acquiring the [cigarette] habit" among the city's adolescents.

Once the 1964 Surgeon General's Report asserted a link between cigarettes and lung cancer, New York's major newspapers became saturated with reports and columns about the

Daily Worker, January 13, 1955.

New York World Telegram and Sun, July 11, 1957.

²¹ New York World Telegram and Sun, December 12, 1959.

²² New York World Telegram and Sun, June 24, 1961.

²³ New York World Telegram and Sun, Ageist, 1962.

dangers of addiction and the difficulties of breaking the habit. The <u>New York Daily News</u>, for example, reported that some doctors believed the new federal labeling law might become "an added deterrent for non-smokers to remain unaddicted, but it probably won't cause smokers to stop smoking in any significant numbers"²⁴

Dr. Theodore Van Dellen offered <u>Daily News</u> readers a regular column of advice from the "Family Doctor" during the 1960's and 70's, with much of his attention focused on the issue of overcoming the smoking habit:

drug or combination of drugs that can cure or overcome the tobacco habit. . . . They cut down, switch to cigars or a pipe or stop buying cigarets. But despite these shenanigans, the habit persists.

a few years later. 26 By the early 1970's, Dr. Van Dellen was comparing cigarette addiction to the dangers of hard drugs. "If the mother is a morphine addict, the baby usually becomes addicted while in the uterus. . . . Nicotine also passes into the fetal circulation via the placenta." he cautioned.

New York Daily News, January 9, 1966.

²⁵ Dr. Theodore Van Dellen, "You Can Stop Smoking, But It Isn't Easy," New York Daily News, December 19, 1963.

²⁶ Dr. Theodore Van Dellen, "They Would Rather Switch Than Fight Cigaret Habit," New York Daily News, February 5, 1968.

²⁷ Dr. Theodore Van Dellen, "Smoking and Pregnancy," New York Daily News, July 6, 1971.

The New York press was hardly alone in warning of the dangers of addiction to cigarettes before and after the Surgeon General's Report in 1963. Here are a few examples from other major metropolitan newspapers:

--Baton Rouge Morning-Advocate--"It is common belief that women are as much or even more addicted to cigarette smoking than men."28

-New Orleans Times-Picayune—He [Dr. Alton Ochsner, a leading anti-cigarette crusader from the 1930's until his death in the 1980's] believes that there are smoking addicts and defined an addict as 'one not being able to give up a habit."

--New Orleans Times Picayune--"There is no habit harder to break than tobacco."30

2. General Periodicals and Magazines

Few New Yorkers could escape the influence of <u>Time</u>, <u>Life</u>, <u>Newsweek</u>, <u>Reader's Digest</u>, or <u>Good Housekeeping</u>, where smoking and cigarette "addiction" became featured articles, even before 1963.

Newsweek informed its readers in 1934 about the experiments of Howard W. Haggard and Leon Greenberg, two Yale University scientists, whose research "clarifies man's craving for nicotine."

And two years later, for example, Time reported on the anti-smoking efforts of Dr. John Lanahan Dorsey at Johns Hopkins University. Dr. Dorsey, the magazine noted, "considers a 'real addict' a person who smokes 20 to 50 cigarettes a day." He attempted to cure his patients

Raton Rouge [Louisiana] Morning Advocate, October 30, 1949, p. 10.

²⁹ New Orleans [Louisiana] Times-Picayune, September 22, 1960, p. 3.

³⁰ New Orleans Times-Picayune, May 2, 1969, p. 21.

³¹ Newsweek, February 24, 1934, 36.

of the habit with lobeline, "a drug which . . . affects the human system almost exactly as nicotine does," but "is not habit-forming as is nicotine."

Life asked its readers in 1954, "How Do I Swear Off?" and offered the following somewhat contradictory observations: "While tobacco in the medical sense is not addictive or habit forming, it often has an iron grip on its habitual users." The magazine concluded that "the difficulties of giving up smoking have been so widely discussed, many smokers believe it is virtually impossible."

Four years later, the same magazine reported on the ordeal of "British Addicts" who suffered through an anti-smoking experiment organized by Hubert Little, head of England's Society of Non-Smokers. The Society's president Lennox Johnson told the participants: "

Tobacco is a drug. . . . The drugged, poisoned addict lives in a state of intermittent intoxication." 14

In reporting on the efforts of famed journalist Joseph Alsop to stop smoking in the early 1970's, Time wondered whether smoking was an "incurable addiction." The magazine noted that Arizona had passed the first state law banning smoking in public places, but the magazine doubted its impact "on those now addicted to nicotine." In addition, Jack White wrote for the magazine in 1988 his "Confessions of a Nicotine Freak." White admitted to being "a slave to

Indian Tobacco and Tobacco," Time, December 21, 1936, 23-24.

Week's Topic A: How Do I Swear Off?" Life, July 5, 1954, 27-28

³⁴"Doomed to a Smokeless Agony: British Addicts Gasp Nobly Through Antitobacco Experiment," *Life*, November 17, 1958, 70.

^{35 &}quot;Incurable Addiction?," Time, September 24, 1973, 90-91.

cigarettes," and one of many "nicotine freaks who have tried repeated to kick the habit and failed."

Good Housekeeping presented the tales of ten famous "former cigarette addicts" who had licked the habit by 1974 as well as the stories of three others who had not succeeded. Singer Johnny Mathis reported it "one of the hardest things I've ever had to do." Nancy Walter said she stopped for only four days, "but I went bonkers. . . . What would it take to get me off now? A death threat." And comedian Shelley Berman, while believing his "stupid and self-defeating habit to be suicidal, confessed "it's hard to work up the strength to fight free again." 37

addressed the issues of smoking and addiction before the Surgeon General's 1988 Report. In its regular column "Your Government and Your Health," the magazine Prevention in 1980 recorded the views of William Pollin, the "top drug abuse scientist" of the federal government, who warned that "there is increasing scientific evidence that cigarettes are both physically and psychologically addictive in the same sense as heroin or morphine." Pollin reiterated these views to Prevention readers a few years later, when he described cigarette smoking as "the most widespread example of drug dependence in this country."

Four years before an official declaration by the United States government, Prevention

Mack E. White, "Confessions of a Nicotine Freak," Time, April 18, 1988.

Ten Famous Former Cigarette Addicts Tell 'How I Quit Smcking'—And Three Others Confess They Couldn't Make It," Good Housekeeping, November 1974, 110, 268.

³⁶ "Advisory Group Wants 'Addictive' Label on Cigarettes," *Prevention*, December 1980, 167.

^{39 &}quot;Smoking is a 'Drug Dependence,'" Prevention, November 1983, 170.

declared "smoking is a medical addiction and can be as difficult to kick as heroin or alcohol." In the early 90's, again equating hard drugs and cigarettes, the magazine reminded readers that "in addictions relapse is a constant concern. Recovery is a lifelong process."

But of all the mass circulation magazines in twentieth-century America, none could match Reader's Digest, published in Pleasantville, New York, for its sustained coverage of health problems posed by cigarettes. Long before the lung cancer alarm of the 1950's and 60's, the most widely-read magazine in the land called attention to the perceived additive nature of cigarettes:

Reader's Digest—In short, tobacco acts as a narcotic poison, like opium and like alcohol, though usually in a less degree."

Reader's Digest Sooner or later, nearly every cigarette smoker discovers that he is not smoking by choice but by habit, and that the habit is probably harmful. So he tries to break free of it, but finds that he doesn't know how. Sometimes half-heartedly, sometimes earnestly he wrestles with his addiction—but in vain."

Cosumer Reports, the bible of American consumers, also did not await upon government reports before advancing the following warning: "Most smokers," according to the magazine, "will no doubt constitue to smoke the major advertised brands, and to agree with the

Ouit Smoking Strategies That Really Work," Prevention, September 1984, 55.

⁴¹ Entering the No-Smoking Century," Prevention, January 1990, 51, 121.

⁴² Irving Fisher, "Does Tobacco Injure the Human Body?" Reader's Digest, November 19, 1924, 436.

⁴³ Henry C. Link, "So You're Going to Stop Smoking?" Reader's Digest, August 1938, 17.

late President William Allen Neilson of Smith College, who defined smoking as 'a dirty, expensive, and unhygienic habit—to which I myself am addicted.'*4

3. School Health Education Textbooks

From the beginnings of anti-tobacco and anti-cigarette activism in the nineteenth century, reformers and government officials focused much of their attention upon keeping these products away from children and adolescents. Apart from legal prohibitions, the most pervasive tool of prevention became the textbooks adopted for use in public schools. State-approved health textbooks in New York from the turn of the century to the present, most published in New York, placed much emphasis upon tobacco, often linking its use to other narcotics and stressing its addictive potential. Some of the most widely used of these volumes in New York schools and elsewhere stressed the relationship between cigarettes, nicotine, and addiction very early:

Health: Public and Personal--"Now that the prohibition laws have restricted the use of alcohol, tobacco remains the prevailing narcotic drug."

Health and Human Welfare—"Tobacco, too, is a habit-forming narcotic. It contains a deadly drug called misseline, part of which is absorbed when tobacco is used." In his later 1941 edition, adopted in New York state, Burkhard affirmed that "tobacco has been used as

^{**}Consumer Reports, January 1949, 35.

⁴⁵ Ralph E. Blount, Health: Public and Personal (Allyn and Bacon, 1930), 95.

⁴⁶ William E. Burkhard, et al., Health and Human Welfare: A Health Text for Secondard Schools (Lyons and Carnahan, 1931), 478.

a sedative or narcotic over a large geographical area and among a greater number of people than any similar substance. Tobacco is a comparatively mild narcotic.... Nicotine, however, is especially potent.⁷⁴⁷ And by 1950, Burkhard's revised textbook concluded: "Tobacco is dangerous, too, in that it is habit forming. In time the practice of smoking takes a strong hold upon the smoker, forcing him to smoke more and more until he becomes an excessive smoker."

Building Good Health-"There are a number of harmful drugs in tobacco, but the principal one is nicotine. . . . If a person is used to smoking a great deal, it is hard for him to stop smoking when for any reason it becomes necessary to give up the habit."

Modern Health. "Tobacco is strongly habit-forming. . . . Moderate smokers don't crave a smoke. Heavy smokers do. This is an adjustment of the body to nicotine. The heavy smoker feels it when he hasn't smoked his regular quota."50

Health and Safety for You—"A person may start smoking for any one of many reasons. He continues because he has developed the habit. Smoking leads to a strong addiction to tobacco which is very difficult to overcome."51

In addition, New York curriculum guidelines required administrators and teachers to inform students of smoking's perils:

William E. Burkard, et al., Health and Human Welfare: A Health Text for Secondard Schools (Lyons and Carnahan, 1941), 492.

William E. Burkard, et al., Health for Young Americans (Lyons and Carnahan, 1950), 302.

⁴⁹ J. Mace Andress, et al., Building Good Health (Ginn and Co., 1939), 119.

⁵⁰ James H. Otto, Cloyd J. Julian, et al., Modern Health (Henry Holt and Co., 1959), 136.

⁵¹ Harold S. Diehl, et al., Health and Safety for You (McGraw-Hill, 1975), 96.

The Teaching of Health in the New York Elementary Schools—"It is a matter of importance and a definite responsibility of the school that educational guidance concerning the use of stimulants and narcotics be included in the health education curriculum. . . . The objective in this phase of the child health program is to guide children's behavior to the end that they may abstain from the use of stimulants, alcoholic beverages, tobacco and other narcotics during the growing period."52

Health Teaching for the Junior and Senior High Schools in New York—"Through reading, consulting scientific authorities and classroom discussions, consider the following questions and problems related to tobacco and its use: a. What is the narcotic substance found in the leaves of the tobacco plant, in sigarettes, cigars, tobacco, and snuff?" ¹³

New York City's Board of Education in the early 1960's required its secondary teachers to instruct students in the factors that motivated people to smoke. Teachers were encouraged to bring doctors into the classroom, who would speak specifically on the "habit-forming characteristics of nicotine."54

4 Advice and Confessional Literature

⁵² University of the State of New York Bulletin, No. 1090, April 15, 1936, "A Guide to the Teaching of Health in the Elementary School."

⁵³ Health Teaching Syllabus for the Junior and Senior High School, Health Education Series Bulletin No. 3, the University of the State of New York Press, 1955.

^{54&}quot;Health Teaching in Secondary Schools," Curriculum Bulletin No. 6, 1960-61, Board of Education, City of New York.

The number of books written by doctors, psychologists, and ex-smokers on the subject of how to quit smoking, many of them published by New York companies, would fill an entire bookcase and is further evidence of the extensive variety of sources of information about the difficulties of giving up the habit which were available to members of the class. And given the number of smokers who hoped to break their addiction, the market for these books has appeared inexhaustible for much of the twentieth century and especially since the 1950's. From reading the books in this popular genre, readers could not avoid believing that cigarette smoking was addictive.

Max MacLevy—Nicotine—the most active drug in tobacco—is insidiously powerful. It gains a peculiar hold upon its victim, often stronger than alcohol. . . . The man who has an unconquerable tobacco habit must constantly have his poison in some form, or suffer.**55

C. Aubrey Hearn—In 1945, during the cigarette shortage, hundreds of people would stand in line for hours waiting to buy a pack of cigarettes. Sometimes people would spend several hours a day making the rounds of all available stores in order to buy cigarettes. A friend said to the: Il never thought a man would walk a mile for a smoke, but during the cigarette shortage I saw it done many times. During the cigarette shortage a real estate dealer in Florida offered to swap a city lot for litteen cartons of cigarettes. He admitted that he had more lots than will power.

Stewart Alsop-"You must be convinced that your enslavement to tobacco is

⁵⁵ Max MacLevy, Tobacco Habit Easily Conquered (Albro Society, 1916), 10.

⁵⁶ C. Aubrey Hearn, What About Smoking? A Brief Common-Sense Discussion (School and College Service, 1950), 27.

reducing your vitality, your enjoyment of life, and even your life expectancy. . . . You must really want to escape the slavery. . . . You must know that, if you cheat a little, you'll cheat a lot, and sooner or later you'll be a slave again."57

Ben Petmecky—"I think I'm going to become a chewing gum addict. Yes, I've managed to stop smoking, but that's because I'm fighting the habit, primarily, and not because I've been cured of the desire. I can be strong enough to stop, but I dread the thought of going the rest of my life like this, gritting my teeth to try and relieve the craving to suck, the deep, urgent command my mind will never let me forget."51

Zalman Amit and E. Ann Sutherland--"Every year, at least 1,000,000 people in the United States and Canada will try to give up smoking. Most of them have tried before, and most of them will try again. They will try quitting 'cold turkey,' on personal will power alone. Or they will try patented smoking 'cures,' pills and filters, hypnosis, psychotherapy, group programs. They may stop smoking for a day, a week, a year. But very few will never smoke again. It's hard to give up smoking." 59

5. Governmental Information and Initiatives

1.

Efforts by state, local and national government to focus attention upon health-related problems of smoking did not begin suddenly in the 1960's and 70's with Surgeon General reports

Makewart Alsop, "How I Stopped Smoking," Reader's Digest, November 1954, 29.

⁵⁸ Ben Petmecky, Confessions of a Tobacco Addict (Doubleday & Co., 1962), 190-91.

⁵⁹ Zalman Amit and E. Ann Sutherland, Stop Smoking for Good (Walker and Co., 1976),

and mandated warning labels on cigarettes. State and local government restricted sales to minors early in this century; fourteen states banned cigarettes entirely before and immediately after World War I. Senator Reed Smoot of Utah led the campaign at the federal level. He sought to prohibit smoking in all federal buildings on the executive branch as early as 1921 and later in the decade sponsored legislation to place tobacco products under the jurisdiction of the Food and Drug Administration.

The lung cancer scare of the 1950's and 60's, combined with battles over cigarette labeling raised dramatically the level of involvement with issues of smoking and addiction.

Government leaders in New York state and city were among the most active in alerting the public to these dangers. The New York State Senate created a special committee on smoking and health in 1964, chaired by Senator Edward J. Speno. Testifying before that committee, Dr. Morton Levin, chairman of Roswell Park Memorial Institute's Cigarette Cancer Committee, was asked whether cigarette smoking could be defined as a habit or addiction. Tt's an addiction for some people," he concluded, "it's an addiction in the sense that they are unable to control their smoking even if they wished to."

The special committee's official report concluded that cigarettes had been "convicted of the mass murder of American citizens" and branded them "a deadly poison and a lethal weapon and an addiction for many." Senator Simon Liebowitz, a member of the committee, offered the

⁶⁰ New York State Senate, Special Committee on Smoking and Health (Albany, 1964), 20.

⁶¹ Ibid., 9.

separate opinion that "smokers of cigarettes are habituated or addicted to smoking." Chairman Speno, noting that even Sigmund Freud, the great scientist of the mind could not control his habit, concluded that "a key question in the cigarette complex is how to break addiction." 63

In the wake of the 1964 Surgeon General's Report, the New York City Health Department swung into action with a city-wide anti-smoking campaign that included institutes and clinics designed to fight the cigarette "addiction." The Health Department also focused much of the space in its publication, "Spotlight on Health" on encouraging the city's smokers to give up cigarette.

"Tried to break the cigarette habit but failed by yourself? Why not get free professional, and proven effective help by attending the Third Semi-Annual Stop Smoking Clinic at Cathedral High School. . . . Remember those who quit smoking can live longer."

During House and Senate debates following publication of the Surgeon General's Report in 1963, those who hoped to place warning labels on cigarettes or place the product under the authority of the Food and Drug Administration often invoked addiction as the justification for their legislation. The tobacso industry, according to Representative Morris K. Udall, pursued a "never ceasing quest for new addicts." Senator Frank Church of Idaho proclaimed no desire to

Ibid., 11.

³³ Ibid., 15.

Mew York City Department of Health, Report on Anti-Smoking Institutes and Clinics, July 1, Municipal Reference and Research Library.

⁶⁵ New York City Department of Health, "Spotlight on Health," Vol 3, No. 9 (September 1967). See also "Spotlight on Health," Vol 2, No. 9 (October 1966).

⁶⁶ Congressional Record, 88th Cong., 1 Sess., June 5, 1963, Vol 109, part 8, 3620.

limit the right of adults to smoke, but "it is clear that eigarette smoking for many people is an addiction, especially if it is begun in youth."67

Responding to the views of Senator Church and other political leaders, the U.S.

Children's Bureau launched a nation-wide anti-smoking campaign aimed at school children in the elementary and secondary grades. The difficulty of breaking the cigarette habit became a principal theme of these pamphlets:

it. Cigarettes are bad habits. Many people get used to smoking them and then find it is very hard to stop."64

they knew of its dangers. But now for many of them, the habit is too strong. Even if they want to stop, they can't."

From the debate over filter-tipped cigarettes in 1950's up to the present decade, every proposed piece of federal legislation relating to cigarettes has brought forth a deluge of testimony concerning the perceived addictive pature of the product. A complete inventory of each and every such comment in hearings and the Congressional Record would fill a large book in itself. Here is a representative sample:

^{***}Songressional Record, 88th Cong., 1 Sess., November 20, 1963, Vol 109, part 17, 22483.

⁶² U.S. Children's Bureau, "Why Nick the Cigarette Is Nobody's Friend," Publication No. 447, 1966.

⁴⁹ U.S. Children's Bureau, "A Light on the Subject of Smoking," Publication No. 448, 1966.

Roy Norr-"I am concerned about addicts created by the cigarette industry.

Medical history is full of cases where men have lost a leg or an arm due to Berger's disease, but yet insisted upon smoking." 70

Congressman Morris Udall—"I do not think we are going to make too much change in the older generation, the people that have established this habit. The doctors have found that it is extremely difficult to break this, even with the best psychiatric and scientific knowledge that we have."

Congressman Edward Koch of New York—"There is a strong body of medical opinion which believes that cigarette smoking is not only psychologically but physiologically addictive comparable to heatin addiction... And if as I believe it will be established that such is the case, then there ought to be legislation which would require that the warning on the pack of cigarettes also indicate the danger of addiction."

Congressman Thin Slatterly--"I think that the purchaser of cigarettes should understand and be told, when they purchase a pack of cigarettes, that they are buying a product that has an addictive narcotic in it, nicotine. . . . I do not think we should play games with what

Festimony before a subcommittee of the Committee on Government Operations, House of Representatives, 85th Cong., 1 Sess., "False and Misleading Advertising—Filter-Tip Cigarettes." July 1957.

Hearings before the Committee on Interstate and Foreign Commerce, House of Representatives, "Cigarette Labeling and Advertising," 1965, 28.

⁷² Hearings before the Committee on Interstate and Foreign Commerce, House of Representatives, 91st Cong., 1 Sess., 1969, "Cigarette Labeling and Advertising," Part I, 47.

nicotine really is. It is an addictive narcotic, and we should label it for what it is."73

7. Cartoons and Motion Pictures

As early as the 1940's, nationally-distributed Hollywood cartoons warned audiences of the dangers of cigarette addiction. In Walt Disney's "No Smoking" (1947), for example, Goofy attempts to give up the dirty and annoying habit, but finds it very difficult to do so. He is addicted in the popular sense, capable of doing almost anything for a cigarette, which he refers to often as a "nail" or a "weed." Goofy's battle against the habit continues to reach young audiences today through reruss on the Disney Channel and the Cartoon Channel. Likewise in the 1954 cartoon, "No Ifs Ands or Butts," the Cat follows the advice of Dr. Nicotine, who recommends a Crow salad as the best cure for the cigarette habit. The Cat fails to catch Buzzy the Crow, however, who seeks to help him with his addiction: "Will power!" Buzzy pleads, but the Cat confesses: "I've still got the habit."

From New York City to San Francisco, major motion pictures from Hitchcock's "Saboteur" in 1942 to the more contemporary "Cold Turkey" (1971) and "Blue in the Face" (1996) have frequently reaffirmed popular cultural understandings and stereotypes about the addictive nature of the cigarette habit:

-In "Saboteur," the hero, Robert Cummings hitches a ride with a truck driver who asked him to take the wheel while he lights up a cigarette. He tells Cummings, matter-of-factly:
"I'm a micouine addict."

⁷³ Hearings before the Subcommittee on Transportation and Hazardous Materials of the Committee on Energy and Commerce, House of Representatives, 100 Cong., 1st Sess., "Tobacco Issues," Part II, November 1989, 175.

→In "Mr. Peabody and the Mermaid" (1948), Clinton Sunberg informs his bar companion, William Powell, that the doctor has advised him to quit smoking. "How long," Powell asks. "Just 'till I go crazy," Sunberg replies.

-In "Damn Yankees" (1958), Russ Brown advises Tab Hunter that "the only thing that comes easy is the cigarette trick. Now I'm trying to break myself of the filthy habit."

-Norman Lear's "Cold Turkey" (1971) remains the quintessential comic treatment of cigarette addiction, as the entire town of Eagle Rock attempts, usually without great success, to kick the habit for thirty days in order to win a \$25-million prize put up by a major tobacco company. Despite the heroic efforts of the Rev. Clayton Brooks (Dick Van Dyke), most Eagle Rock residents like Jean Stapleton remain enslaved to their cigarettes and adopt various strategies to conceal their addiction.

patrons of Harvey Keitel's Brooklyn tobacco shop remain heavy smokers. When one brave soul attempts is abandon the habit after many years, he engages Keitel in a long and moving reverie about both the pleasures of smoking and the ordeal of giving it up.

Television Reporting and Documentaries

television networks (CBS, ABC, and NBC) through their news reporting, documentaries, and talk shows became a primary sources of information about cigarettes and public health beginning in the 1950's and thereafter. The theme of addiction was conveyed from the beginning.

In 1957, before an audience of millions, the nation's greatest World War II hero and

perhaps its most popular post-war President, confessed that not smoking had been one of his toughest battles, even after a heart attack. "I'm a little like the fellow who said I don't know whether I'll start again," Dwight Eisenhower told reporters at his press conference, "but I'll never stop again."

Two years earlier, in his famous two-part 1955 "See It Now" program that examined the link between smoking and lung cancer, the legendary Edward R. Murrow, constantly puffing away on his ever-present cigarette, interviewed doctors and scientists on both sides of the raging debate. Harry Reasoner told a "60 Minutes" audience in 1984, that all of his friends began smoking as been agers "and they couldn't stop." This episode of "60 Minutes" also told the story of a conflict inside the Massachusetts Department of Public Welfare between employees who sued to prevent all smoking in the office and Judy Canon, another employee, who claimed she was "addicted" to agarettes and could not break the habit."

In 1968, GBS and Mike Wallace invited viewers to take their National Smoking Test.

The central questions to which viewers were to respond "seldom," "occasionally," or

"frequently," all centered on addiction: (1) "When I run out of cigarettes I find it almost

unbearable until I get one?" and (2) I get a real craving for a cigarette when I haven't smoked one

for awhile. Dr. Daniel Horn, a leading anti-smoking researcher and advocate, told the CBS

audience that "psychological addiction" appeared to be as important as the ingredients in

⁷⁴ President Dwight Eisenhower Press Conference (1957).

^{75 &}quot;No Smoking," on "60 Minutes" (1984).

cigarettes themselves.76

Another addition of "60 Minutes" in 1985, "Cigarettes and the Public Health," lamented that the anti-smoking campaign had not curbed the nation's appetite for cigarettes. The celebrated actress Geraldine Fitzgerald, speaking on behalf of nicotine's opponents, confessed "I was an addict. I used to smoke 60 cigarettes a day." That same year on a "Face the Nation" segment concerning second-hand smoke, reporter Leslie Stahl observed that despite evidence that cigarette smoking causes lung cancer, contributes to heart attacks, "and is addictive," 30% of the American public continued to indulge in the habit."

Conclusion

history, the vanished past can never be recaptured in its entirety. But the necessity for selection becomes an aid to the faithful recreation of past events and attitudes when done with full awareness of these limitations. The above examples could be expanded upon many times, because they represent but a fraction of the research I have conducted. But in my opinion they constitute persuasive evidence sufficient to demonstrate that for over two hundred years

National Smoking Test," CBS News (1968).

[&]quot; "Cigarettes and the Public's Health," 60 Minutes (1985).

[&]quot; "Passive Smoking and Second-Hand Smoke," Face the Nation (1985).

information regarding the habit-forming and/or addictive nature of smoking was widely available through a variety of sources throughout New York state and American society generally.

I declare under penalty of perjury that the foregoing is true and correct and that I executed this affidavit on December 5, 1996 at San Diego, California.

Michael Parrish Professor of History

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Woodrow Wilson Fellowship, 1964-65

Woodrow Wilson Dissertation Fellowship, 1967

American Council of Learned Societies Fellowship, 1973

National Endowment for the Humanities Fellowship, 1974

Liberal Arts Fellow, Harvard Law School, 1974

MEMBERSHIPS

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Teaching Fellow, Yale University, New Haven, 1967-68

Assistant Professor of History, University of California, San Diego, 1968-73

Associate Professor of History, University of California, San Diego, 1973-1981

Professor of History, University of California, San Diego, 1981-present

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Chairman, Department of History, University of California, San Diego, 1985-88.

Director, Urban Studies and Planning Program, University of California, San Diego.

Member, Committee on Academic Personnel, University of California, San Diego, 1976-78, 80-81.

Member, Committee on Educational Policy, University of California, Sas Diego, 1975-76, 1979-80.

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Member, Executive and Policy Committee, Academic Senate, University of San Diego, 1982-84.

Chairman, Select Faculty Committee on UCSD Law School, 1984.

Chairman, Faculty-Administrative Committee on Subject A and English Composition, University of California, San Diego, 1985.

Divisional Representative, All-UC Academic Assembly, 1983-85, the state-wide legislative body of the UC faculty.

Member, Committee on Committees, Academic Senate, 1992-95

PUBLIC SERVICE

Member, Encinitas Union Elementary School District, elected to four year term, 1971-75

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Constitutional History of the United States

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The Cold War

The Great Depression

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Other book reviews have appeared in The American Historical Review, Reviews in American History. The American Journal of Legal History. The Pacific Northwest Ouarterly Review, The Journal of American History, and the Los Angeles Times.

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I. Books

Michael E. Parrish, The Lion of Liberalism: Joseph L. Rauh, Jr. and His Times (New York, W. W. Norton, sometime in mid 1990s).

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Court, February, 990

Coolidge and the Coolidge Era," Library of Congress, Washignton, D. C., 1995.

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AFFIDAVIT

of THEODORE A. WILSON

STATE OF KANSAS

COUNTY OF DOUGLAS

Theodore A. Wilson, being duly sworn, says and deposes:

- 1. My name is Theodore A. Wilson. I am Professor of History at the University of Kansas, Lawrence, Kansas, having served on its faculty since 1965. I hald a B.A. in History and Political Science (Indiana University, 1962), M.A. in History (Indiana University, 1963), and Ph.D. in American History (Indiana University, 1966). I have held research fellowships and visiting professorships in such traditutions as the Harry S. Truman Presidential Library Institute, the U.S. Army Center for Military History, and University College-Dublin. My teaching, research, and publications embrace political, social, economic, and military history, especially during the eras of World War II and the Cold War. I am the author, co-author, or editor of seven books and numerous articles dealing with historical subjects and, immodestly, claim expert knowledge of the political and social history of the United States in the 20th century.
- 2. I have been asked to research popular awareness about and the public's understanding of the addictive and health-threatening effects of cigarette smoking.

EXHIBIT NO. 5

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Making use of research assistants with graduate training in history and history/library science, I have been pursuing research in published sources (books, scholarly articles, periodicals, newspapers, and compilations of government records) and in archival collections and personal papers at the national level and, more particularly, in Ohio bearing upon popular awareness and the public's understanding of smoking's addictive and health-threatening aspects over the past two centuries. For the purposes of this affidavit, my research and conclusions deal primarily with the issue of popular awareness regarding the addictive nature and health-threatening effects of cigarette smoking in the state of Ohio and the United States during the 20th century.

Ohio of the health-threatening effects and addictive character of smoking cigarettes is documented in such sources as newspapers and periodicals, including publications of leading anti-smoking groups; federal and state records (state legislative hearings, congressional hearings, federal executive agencies, and state and local public health departments); texts and publications used in public schools and distributed by religious and eleemosynary organizations; diaries, memoirs, and autobiographies; unpublished writings and correspondence of anti-smoking advocates, physicians, scientists, and political leaders; and radio and television news programs and documentaries, motion pictures, and cartoons. Space does not permit inclusion of more than a fraction of the material unearthed that relates to this subject.

4. The public's cognizance that smoking had health and life-threatening consequences and that there existed a likely connection between smoking and addiction are deeply ingrained in American culture. The emergence in America of the cigarette as the form chosen by most tobacco users was paralleled by an agarassive and broadly-based popular opposition movement. Indeed, between 1900 and the 1990s, anti-smoking advocates succeeded in curbing access to cigarettes, in stigmatizing the act of smoking, and in reducing the incidence of smoking by characterizing this act as addictive behavior and by greatly enhancing public awareness about smoking's presumed health consequences. Even though the numbers of Americans amoking cigarettes increased significantly in the late 19th and the first part of the 20th century, information about its addictive and health-threatening effects has pervaded American society throughout the 20th century, disseminated by newspapers, periodicals, textbooks, self-help literature, official reports, and such paradigms of popular culture as films and television programs. When exploring popular understanding about a subject such as cigarettes, health, and addiction, historians keep in mind the distinction between what trained scientists knew and expressed and what the man or woman in the street assumed to be the truth of the matter.

addictive effects of smoking were widely circulated. One of the first known condemnations of tobacco, King James I's <u>A Counterblaste to Tobacco</u> (1604) stressed tobacco's harmful effects on both the human body and the will, thus

The Puritan divine, Cotton Mather, in <u>Manuductio ad Ministerium: Directions for a Candidate of the Ministry</u>, remarked that "if once you get into the way of Smoking, there will be extreme hazard of your becoming a Slave to the pipe; and ever insatiably craving for it." Benjamin Franklin observed: "I never saw a man well in the exercise of commonsense who would say that tobacco did him good." Our sixth president, John Quincy Adams, admitted that "in my early youth I was addicted to tobacco in two of its mysteries—smoking and chewing. I was warned by a medical friend of the pernicious operation of this habit ... and the advice of the physician was fortified by my own experience." Were "every acre of tobaccoland" converted into wheat fields, Adams claimed, that act would "add five years to the average human life." Among many others, Abreham Lincoln, and Justice Oliver Wendell Holmes condemned smoking as an unhealthy and enslaving habit.

Indeed, Americans routinely made use of the metaphor of slavery and enslavement to describe tobacco's perceived addictive qualities. Rev. J.B. Wight proclaimed: "This tobacco slavery ... numbers among its victims more persons than were ever captured in war in Attica or were brought from Africa in ships."

Cotton Mather, Manudictio ad Ministerium: Directions to a Candidate of the Ministry (Boston, 1726), 46; reprint ed., 1938, 133.

² Quoted in M.E. Poland, <u>The Truth About Tobacco</u> (Bethany, West Virginia: No-Tobacco League of America, 1915), 40.

³ John Quincy Adams to S. H. Cox, 19 August 1845, Arents Collection, Vol. IV, 3264C, New York Public Library, New York City.

⁴ J. B. Wight, Tobacco: Its Use and Abuse (Columbia, SC, 1889), 180.

Cigarette smoking was considered a first step down the road to addiction and moral degradation. Many authorities claimed, as did anti-drug crusader Charles B. Towns, that "the relation of tobacco, especially in the form of cigarettes, and alcohol and opium is a very close one. "⁵ Such terms as "bondage," and "fetters" were linked in familiar parlance with smoking; cigarettes were widely termed "fags" and "little white slavers"; and smokers were characterized as "cigarette slaves" and "cigarette addicts." Anti-smoking crusaders were especially concerned about the appeal of cigarettes to adolescent boys. The New York Times proclaimed in 1905 that cigarettes had "an appalling hold on American youth."

As use of cigarattes spread in the late 1800s, newspapers across the nation constantly stressed the dangers of smoking. Physicians and the general public understood that tabacco contained nicotine, a deadly poison, and that inhaling algarette smoke delivered larger quantities of nicotine into the lungs. By the lates 9th century, most states mandated instruction about physiology and hygiene including information about the effects of tobacco and cigarattes. In

Charles B. Towns, "Injury of Tobacco and Its Relation to Other Drug Habits," The Century, 83 (March, 1912), 770.

New York Times, October 27, 1905.

⁷ See the characterizations of cigarette smoking in the New York Times throughout the 1880s and 1890s and, for example, the following anti-smoking stories: New York Times, January 11, 1891; Raleigh News and Observer, February 21, 1897; Seattle Times, June 13, 1909.

E.A. King, The Cigarette and Youth (Newport, N.Y.: Central Anti-Cigarette League, 1896), 5-6.

Kansas, for example, the first such legislation dated to 1877. An early instructional pamphlet, "Temperance, Health, and Moral Purity," warned that "the list of diseases declared by the most learned physicians to result from the use of tobacco in all forms is appalling." The first Ohio law requiring teaching about the malign effects of alcohol and narcotics was passed in 1888, and fifteen years later "scientific temperance" was mandated throughout the state. 10 By 1890, twenty-one states and territories had banned the sales of cigarettes to minors, and calls were mounting for total prohibition of cigarettes. In Ohio, a bill prohibiting the manufacture and sale of cigarettes was proposed in the House in 1906 but was not approved, though a ban on sale to those under eighteen was adopted; a second legislative effort to ban cigarettes occurred in 1910. Although it was defeated, anti-smoking legislation was introduced numerous times in the Ohio legislative during the next fifteen years.

8 The Women's Christian Temperance Union, active throughout the Midwest and especially in Ohio, took up the cudgels against tobacco.

Organizations such as the Anti-Cigarette League of America (ACL), founded by a

Laura M. Johns, An Appeal to Kansas Teachers in Behalf of Temperance, Health, and Moral Purity (Topeka: Kansas Publishing House, 1889), 14-15. A foreword stated: "This pamphlet ... is mailed to each school superintendent and to each of the 11,500 teachers in the public schools of this State," Kansas Collection, University of Kansas, Lawrence, KS.

State of Ohio, General and Local Acts Passed, 68th General Assembly, regular session, LXXXV (Columbus: Columbian Printing Company, 1888), 213-14; State Commissioner of Common Schools, Fiftieth Annual Report (Springfield, Ohio: Springfield Publishing Company, 1903), 17.

redoubtable WCTU alumna who was born in Delaware, Ohio, Lucy Page Gaston, specifically targeted the cigarette for censure. By 1901, the ACL boasted a membership of 300,000, with membership throughout the United States, including Ohio It and allied groups such as the Anti-Saloon League, the Non-Smokers Protective League, the No-Tobacco League and No-Tobacco Army (extremely active in Ohio), the WCTU's Anti-Narcotics Department, the Salvation Army, and the YMCA sought to exploit the prevailing popular conviction that cigarettes were harmful to achieve nationwide prohibition. These efforts continued unabated through World War I. After 1904, the Salvation Army's national magazine, The War Cry featured aggressive attacks on cigarette smoking.12 YMCA publications wassed youthful clients and their parents about the dangers of smoking. A typical artistents Smoking Injurious," by Dr. George J. Fisher, the YMCA's medical director, offered an emphatic "yes". 13 Such influential businessmen as Henry Ford and Thomas Edison condemned the cigarette habit. Edison warned of the physical and maral degeneration that resulted from smoking cigarettes: "Unlike most narcotics, this degeneration is permanent and uncontrollable. I employ no person who smokes cigarettes.*14 Dr. Bruce Fink, Professor of Biology at Miami

¹¹ New York Times, July 12, 1901.

See, for example, The War Cry's issues for May 23, 1908 and June 20, 1908.

¹³ George J. Fisher, "Is Smoking Injurious?," <u>Association Men.</u> 38, no. 3 (December, 1912), 22.

Dr. Harvey W. Wiley, "The Little White Slaver," Good Housekeeping (January, 1916), 91.

University of Ohio, published widely on the "dangers of the tobacco habit." A prominent Methodist layman, his research on the injurious effects of smoking received wide circulation. 15

9. Although patriotic sentiments associated with World War I and other influences led to a notable increase in the prevalence of cigarette smoking among both men and women in the decades after 1920, efforts to disseminate information about the addictive and injurious effects of cigarettes continued. A few examples of the anercetic awareness efforts during the decades from 1920 through World War II should suffice. Following passage of the 18th Amendment, anti-smoking advocates vowed that tobacco would be next. Evangelist Billy Sunday declared: "Prohibition is won; now for tobacco." An influential "Gomesittee of Fifty to Study the Tobacco Problem," chaired by economist Irving Fisher and comprising businessmen, physicians, and educators (such as nutritionist John Harvey Kellogg, E.V. McColium of Johns Hopkins University, and Henry Fordlagonsored anti-amoking pamphlets such as "The Case Against Smokes" and "Is the Tobacco Habit Injurious?". The WCTU, Anti-Tobacco League, Methodist Church, and many other organizations maintained staunch opposition to cigarette

See Bruce Fink, <u>Tobacco</u> (Cincinnati, OH: Abingdon Press, 1915) and his monograph, <u>The Tobacco Habit</u> (Oxford, OH: Miami University, 1914).

¹⁶ Quoted in Joseph C. Robert, <u>The Story of Tobacco in America</u> (New York: Alfred A. Knopf, 1952), 247.

¹⁷ "Committee to Study the Tobacco Problem," n.d., Folder 5, John Harvey Kellogg Papers, Michigan Historical Collections, University of Michigan, Ann Arbor, MI.

smoking throughout the interwar decades. ¹⁸ Oberlin's president, Dr. Henry King, condemned the habit of "compulsory smoking" and bernoaned the "tyranny of tobacco" and its addictive effects on young Ohioans. ¹⁹ The Centon Repository carried an Associated Press story that in Graz, Austria, the 4th International Congress of opponents of tobacco smoking was taking place. "According to the speeches delivered, the harm done by liquor is little indeed compared to the ravages inflicted upon mankind by the smoking habit. ²⁹ The Akron Journal reported in March, 1925 that a nationwide campaign against tobacco was being launched, following a meeting of prominent anti-smoking advocates in indianapolis. ²¹ In 1926, physicians condemned the "cigarette habit" in hearings conducted by the House of Representatives Committee on Education, and in 1929 Senator Reed Smoot in a flery and broadly-publicized speech urged that Congress place tobacco products under the Food and Drugs Act. ²²

See, for example, James Jefferies. "Tobacco a Poison Closely Allied with Narcotics." The Bulletin, I, no. 8 (September, 1927), 4; Charles C. Rarick, "Eminent Authorities Who Condemn the Cigarette," Methodist Board of Temperance, no. 88 (1923), 1-3; and "Charles M. Fillmore, Tobacco Taboo (Indianapolis, IN: No-Tobacco League, 1928).

The No-Tobacco Journal, IV, no. 8 (August, 1921), 8.

Canton Repository, October 10, 1926.

Akron Journal, March 26, 1925.

Housekeeping, and Dr. Howard A. Kelly of Johns Hopkins University School of Medicine, House of Representatives, 69th Congress., 1st Sess., "Hearings before the Committee on Education: Conference on Narcotic Education (Washington, DC: GPO, 1926), 143-145; Hon. Reed Smoot, "Extension of Pro- Food and Drugs Act to Tobacco and Tobacco Products," Congressional Record, June 10, 1929 (Washington, DC: GPO,

10. Advertisements for products that allegedly "banished the tobacco habit" are evidence of popular awareness of the difficulties of quitting and they appeared in such general circulation magazines as <u>Popular Mechanics</u> and in the Claveland <u>Plain Dealer</u> and other Ohio newspapers.²³ The American Medical Association routinely dealt with inquiries about the efficacy of smoking cures by the 1930s. Widely disseminated were handbooks for "speakers and organizers against the evils of tobacco."²⁴

Ochsner, invited to observe the autopsy of an individual diagnosed with lung cancer, was told that he might never see another case of this rare malady. He was not to encounter lung cancer again until 1936 and then saw eight cases—all cigarette smokers who acquired the habit in World War I—in a six month period.

Drs. Lombard and Doering noted in the New England Journal of Madicine in 1928 that thirty-four of thirty-five localized incidences of cancer (lung, cheek, jaw) were linked to heavy smoking, and their findings were reported to the public via the

^{1929) 3-12.}

See, for example, "Stop Using Tobacco: Let Us Help You to Banish the Habit," Popular Mechanics (March, 1932), 29. A widely-disseminated pamphlet, Tobacco Redession (St. Louis, MO: The Newell Company, [1930s]), championed a "home treatment for the tobacco habit." It began: "Tobacco Slaves. Are you one? Are you getting tired of paying daily tribute to that inexorable master-King Tobacco?" It then asked: "Why continue a habit if it is undermining your health, wrecking your nervous system, causing you loss of appetite and loss of sleep and costing you money that you could use to a real advantage...." This treatment boasted 300,000 satisfied customers.

Richard J. Walsh, The Burning Shame of America: An Outline Against Nicotine (Mount Vernon, NY: William Edwin Rudge Printing House, 1924).

mass media.²⁵ The reported number of lung cancer cases, as related in the <u>New York Times</u> and <u>Science Digest</u>, nearly tripled between 1930 and 1940.²⁶ In 1938, <u>Time</u> characterized the findings of Dr. Raymond Pearl, Johns Hopkins biologist, on the correlation between smoking and reduced longevity as sufficient to <u>Smake</u> tobacco users' flesh creep.*27

magazine and was sold widely in Ohio, undertook a double-barreled campaign against cigarette smoking as early as 1924. Irving Fisher asked, "Does Tobacco Injure the Human Body?," in Reader's Digest's November, 1924 issue. In this way the arguments of anti-smoking advocates such as Fisher reached a broad readership. Figher accepted as fact that "we now have sufficient information to determine the effect of tobacco on the human body" and that smoking led to various medical problems. In 1940, Reader's Digest offered "I Quit Smoking or, Cooper's Last Stand," a story of how deeply writer Courtney Ryley Cooper had been hooked and how he stopped smoking. A revealing smalgam was the December, 1941 Reader's Digest article, "Nicotine Knockout, or the Slow Count," by former heavyweight boxing champion Gene Tunney. "You do get a 'lift' when

New York Times. September 20, 1928; Current History, 30 (September, 1929).

New York Times, October 26, 1940; Science Digest, November, 1940.

Time, March 4, 1938.

Reader's Digest, November, 1924, 435-436.

Reader's Direct, July, 1940, 32.

you light a cigarette," Tunney stated. "But it's exactly like the lift you get from cocaine, heroin, marijuana." As Director of the Navy's Physical Fitness Program, Tunney commented, "I can bluntly say that few things could be worse for physical fitness than promoting the tobacco habit." Scribner's Magazine published an article about tobacco and health in 1930, Nawswack carried the first of numerous article about addiction to cigarettes in 1934, Time dealt with the topic as early as 1935, and such nationally-distributed periodicals as Good Housekeeping and Commonweal weighed in with feature stories.31

13. That this massage was generally known and understood by the public is indisputable. As syndicated columnist Westbrook Pegler, himself a smoker, wrote in 1942. Some people ... have suggested that our press has been unwilling to tell site truth about the poisons that people put into themselves by smoking, because we would sacrifice some degree of the public health for the money we get from cigaret advertisements. I don't believe this is true. ... I think people would continue to smoke anyway even if we did dig out and print horribly all the old propaganda of the Arti-Cigarette League. ... Even though their elders tell them from early childhood that smoking is bad for them and that the habit, once formed, is very hard to break. ... I can't even save myself. "32 Fifteen years later, a Gallup

Reader's Digest. December, 1941, 21-24.

³¹ Scribner's Magazine, 88 (October, 1930); Newsweek 3, (February 24, 1934); Time, 26 (July 29, 1935); Good Housekeeping, 89 (August, 1929); Commonweal, 25 (April 9, 1937).

Westbrook Pegler, "Fair Enough," New York World Telegram, 2 September 1942.

Poll indicated that more than three out of four adults or 77 percent had heard or read about the warning by Surgeon General Burney and others about a possible connection between smoking and lung cancer. This response was termed by Gallup phenomenal ... in polling annals.

instruction about physiology and hygiene, including information about the effects of tobacco and cigarettes. A Kansas schoolboy recalled using a physiology and hygiene text in the 1920s that referred to cigarettes as "coffin nails," with the teacher explaining that "avery cigaret that was smoked had the same effect upon the user as driving a nail into his coffin." During the 1930s, the Ohio State Department of Education's program for health education in junior and senior high schools prescribed questions about tobacco's effects on the human body, whether "a person can be healthy and smoke," and why the smoking habit was so difficult to break. A widely-used text for the upper elementary grades during World War II was Healthful Ways. This text had a section on tobacco usage and linked cigarettes smoking with heart disease. A text for 7th grade students, The American Health Series: Health Progress referred to cigarettes as a nercotic and

Cleveland Plain Dealer, July 24, 1957.

Ralph M. Hope, "Life at Its Best," [September, 1981], Smoking Miscellany Files, Kansas State Historical Society, Topeka, KS.

State of Ohio, Department of Education, <u>Health and Physical Education</u> Series, III (rev. ed., 1936), 251-52.

W.W. Charters, Dean F. Smiley, Ruth M. Strang, <u>Healthful Ways</u> (New York: Macmillan, 1941), 125-26.

discussed the "injurious effects" of tobacco on the heart and circulation. Students were told that "no one, not even a habitual smoker, claims that the use of tobacco improves health."²⁷

15. Similar messages appeared in popular media. As early as the 1940s, nationally-distributed Hollywood cartoons cautioned audiences about the dangers of smoking and the risk of becoming addicted to cigarettes. A testimonial to the addictive power of cigarettes was presented in "No If, Ands, or Butts" (1947), a cartoon shown widely in theaters for many years and still periodically on television. In Walt District's "No Smoking" (1952), Goofy first extolled the rewards of smoking, but a smoker's cough led him to renounce cigarettes.

Suffering from withdrawal, Goofy obsessively tried to smoke but was prevented from lighting up by assorted hilarious circumstances. The cartoon's final message was: "Give the smoker enough rope and he'll hang onto his habit." Feature films such as "Saboteur" (1942) and "Mr. Peabody and the Mermaid" (1948) dealt with the difficulties of breaking the smoking habit. In counterpoint to claims that movies glamorized smoking were negative references in such blockbuster films as Julies Verne's "A Thousand Leagues Under the Sea." Even James Bond—in "You

Charles C. Wilson, John L. Bracken, Helen B. Pryor, and John C. Almack, The American Health Series: Health Progress, Grade VII (Indianapolis, IN: Bobbs-Merrill Company, 1948), 74, 133, 136, 336, 337. A more sophisticated version of this text for 8th grade students discussed smoking in greater detail. The link between smoking and various diseases was presented as self-evident. The authors quoted Oliver Wendell Holmes: "I think tobacco often does a great deal of harm to the health. ... I myself gave it up many years ago." After a recap of problems believed to result from smoking, the text concluded: "Excessive use of tobacco may decrease the number of years a person may live,." ibid, VIII, 117, 121, 122.

Only Live Twice" (1969)—warned a villain: "Don't you know those are bad for your chest," just before annihilating him. Print cartoonists also regularly tackled the smoking-health-addiction relationship. In sum, from the late 19th century through 1945, a period when cigarette smoking experienced phenomenal growth, anti-smoking advocates, groups, and organizations used virtually all available means to get across their message to the American people. Their characterization of smoking cigarettes as injurious to health and associated with abnormal dependence and even exhibition was largely assimilated into popular awareness.

health from World War II through the 1980s, it quickly becomes clear that a large body of information was available to those reading newspapers, giving attention to community affairs, and going to films and watching television—in other words, to anyone living a normal life in America. Such milestones in the debate about smoking and health as the Wynder/Graham studies (1950-1956), the Doll/Hill Study (1952), the pronouncements of Dr. Alton Ochsner (1938 onward), the Hammond/Horn Study (1954-1955), the Auerbach Study (1955-56), the "Seven Experts Study" (1957), the World Health Organization Report (1960), the Royal College of Physician's Report (1962), the Surgeon General Advisory Committee's Report (1964), the Cigarette Labeling and Advertising Act (1965), the American Cancer Society's first "Great American Smokeout" (1976), the Surgeon General's Report on Nicotine Addiction (1988), and the 25th anniversary report by the Surgeon General (1989) reaffirmed public concern and engendered continued

awareness in the American popular consciousness. These patterns of awareness were manifested in various ways both nationally and in Ohio. Examples from the period, 1949-1965, offer irrefutable evidence of this contention.

7. During these decades, Reader's Digest continued its campaign against cigarettes and this influential periodical was joined by numerous other national magazines. Almost every journal of opinion and information from Atlantic, Consumer Reports, Cosmopolitan, and Life to Newsweek, Playboy, Time, and Woman's Home carried features, cartoons, and stories that communicated acceptance of the smoking-health link. 26 Typical was a January, 1950 Reader's Digest piece that asked life we harmful Are Cigarettes?" It concluded that "probably no steady smoker" believed smoking had no harmful effects. Accepting the statistical link between smoking and lung cancer, this article stated: "While all other types of cancer were declining in frequency, the age-adjusted death rate for respiratory cancer rose steadily from 3.7 per 100,000 in 1930 to three times that in 1947, "39 Four years later, Reader's Digest published "The Facts Behind the Cigarette Controversy Emphasizing the increasing evidence of a relationship, this article noted: "Before World War I lung cancer was rare. But after 1920 U.S. doctors began to encounter it more and more frequently. ... *** Similar stories

Reader's Guide to Periodical Literature, 1945-1987.

Reader's Digest January, 1950, 7-8.

⁴⁰ Reader's Direct, July, 1954, 2-4.

"Let's stop kidding ourselves about the effects of cigarette smoking," began an American Mercury feature. 42 Periodicals targeting specialized audiences also provided continuing coverage of this issue. For example, Christian Century published numerous stories about smoking and health in these years. 43 A Stats and Stripes article on September 6, 1947 reported that a University of Chicago medical researcher had told the 4th International Cancer Research Congress in St. Louis that inhaling the attacks of one pack of cigarettes per day for ten years would introduce "eight quarts of cancer-causing ters" into one's body. His conclusion: "We don't have enough evidence to establish as a fact that smoking induces cancer, but this amount of carcinogenic ter entering the body does make it look like the body has a strong resistance to cancer. 44 Stars and Stripes continued to inform its military readership about the subject of smoking's possible health consequences. 44

For example, "Ggarettes and Cancer," Newsweek, 40 (November 3, 1952): "Smoking and Cancer," Time, 60 (December 22, 1952), "Cigarette Smoking and Lung Cancer," Consumer Reports, 19 (February, 1954); and "Smoke Gets in the News, Life, 35 (December 21, 1953).

Allan J. Ryan, "Will You Gamble on Smoking?," American Mercury, 79, no. 3 (August 1954), 13.

See "Cigarets and Cancer," LXX. no. 50 (December 16, 1953), 1445, Christian Century: "New Cigaret-Cancer Link is Found," LXXII, no. 25 (June 22, 1955), 724-25, ibid; "Coffin Nails Take Another Beating," LXII, no. 38 (September 21, 1955), 1077, ibid.

Stars and Stripes (Pacific Edition), September 6, 1947.

See Stars and Stripes: Pacific Edition, November, 1954, October, 1957 for examples of this coverage.

18. Influential proponents of the relationship between smoking and lung cancer were speaking out across the nation. The Miami Herald reported on July 18, 1950 that three teams of American scientists, including such distinguished. individuals as Dr. Alton Ochsner, a highly-respected New Orleans surgeon and then current president of the American Cancer Society, Drs. Ernest L. Wynder and Evarts.A. Graham, and Dr. Morton L. Levin, had blamed cigarette smoking for the dramatic increase in lung cancer.46 Lecturing in Savannah, Georgia, Dr. Ochsner warned that the cancer ampking link necessitated periodic X-rays for "heavy At a National Juberculosis Association meeting in Atlantic City, Ochanger warned that pales the numbers of those smoking dropped significantly, by 1970 one of every five cancer patients would suffer from lung cancer. 45 Dr. Evarts Graham, Bixby Professor Emeritus of Clinical Surgery at Washington University, also was active in giving public lectures about the damaging effects of cigaretts smoking.40 Replying to an inquiry about smoking and lung cancer in 1954, Dr. Graham said that the "harmful effects" of cigarettes extended to the heart and arteries as well as the lungs. The Reader's Digest printed Dr.

They were delivering papers at the 5th International Cancer Research Congress in Paris, France, Mismi Herald, July 18, 1950.

Cancer Increase High for Smokers," Miami Herald, May 13, 1953.

^{46 &}quot;Lung Cancer Rise Seen by Expert," Miami Herald, May 24, 1954.

⁴⁹ Edwin W. Mills to Dr. Evarts A. Graham, October 27, 1949, Box 104, Evarts A. Graham Papers, Washington University, St. Louis, MO.

Dr. Evarts Graham to Francis Bryan, November 26, 1954, Folder 3. Box 104, Graham Papers, Washington University, St. Louis, MO.

Ochsner's blunt statement that "in another decade when our present smoking habits catch up with us ... I am convinced that every heavy smoker will develop lung cancer—unless heart disease or some other sickness claims him earlier." A 1960 story quoting Dr. E. Cuyler Hammond of the American Cancer Society that the "rarity of lung cancer among non-smokers demonstrates that cigarette smoking increases the probability" of lung cancer was featured in the Cievaland Plain

19. Ohio newspapers provided their readers with continuing documentation of the debate over cigarette smoking and health, with all of the major milestones being covered. The <u>Claveland Plain Dealer</u>, for example, provided its readers coverage of the Wyndar/Graham study in 1950 and of a parallel statistical study by New York Department of Public Health researchers. The British Medical Society's report in December, 1952 of a manifest association between smoking and lung cancer was accorded thorough discussion, as was the debate over what constituted a "heavy" smoker, the launch of the Tobacco Industry Research Commissee, to the Public Health Service's survey of veterans to uncover any smoking-cancer correlation, the report by E. Cuyler Hammond of the ACS's continuing study, the conclusions of the "seven scientists study group," and other

The Growing Horror of Lung Cancer," condensed from Today's Health. in Reader's Digest. March, 1959, 110.

⁵² Cleveland Plain Dealer, March 22, 1960.

Develand Plain Dealer, May 25, 1950.

major happenings through the 1950s.54

20. Public awareness of the 1964 Surgeon General's report was reinforced by press, radio, and television coverage and by very extensive attention paid the conclusions of the report in national periodicals and magazines. The <u>Claveland Piain Dealer</u> published daily stories throughout January and maintained its emphasis on the report's health implications thereafter. On January 11, 1964, the <u>Plain Dealer</u> proclaimed: "Today: THE Report on Smoking Risks." Next day a front page headline, "Lung Cancer Laid to Smoking," led off extensive reporting on the Surgeon General's report and reactions of Ohioans to its implications. The <u>Plain Dealer</u> printed a graphic cartoon, depicting a skull labelled "Cancer" suspended on crossed eigerettes over the caption: "The New Danger Signal". A "Spot Survey" on January 13, 1964 concluded, however, that "Cleveland Puffing Continues Unabated." To its national and Ohio readership, <u>Reader's Digest</u>, after a review of evidence linking smoking and lung cancer, commented: "In the last

See Cleveland Plain Dealer, January 12, 1954; "A Frank Statement to Cigarette Smokers," Cleveland Plain Dealer, January 4, 1954; "Medics Report High Death Risk for Smokers 50 to 70," Cleveland Plain Dealer, June 22, 1954; "Lung Cancer Directly Fled to Cigarettes," Cleveland Plain Dealer, March 23, 1957.

Cleveland Plain Dealer, January 11, 1964.

Cheveland Plain Dealer, January 12, 1964. Notably, a Plain Dealer reporter compiled an impressive historical survey of opposition to tobacco, citing James I's condemnation, the activities of anti-tobacco advocates in Ohio earlier in the century, and the subsequent "campaigns by high schools and churches to stop smoking for health reasons," Cleveland Plain Dealer, January 12, 1964.

⁵⁷ St. Louis Post-Dispatch, January 15, 1964.

Cleveland Plain Dealer, January 13, 1964.

analysis, the issue of whether to smoke or not to smoke must be decided by each individual.** Mass-circulation magazines distributed in Ohio dealt with the same themes.**

21. The role of schools in the dissemination of health information to students (and their parents) cannot be underestimated. State laws and curricular policies required teachers to deal with the effects of smoking on health. School texts and supplemental publications such as Weekly Reader and Senior Scholastic discussed the issue extensively during the 1950s, 1960s, and 1970s. For example, Health and Safety for You devoted a chapter to tobacco and observed: "Medical and scientific knowledge leaves no doubt about the harmful effects of smoking.*

"Medical and scientific knowledge leaves no doubt about the harmful effects of smoking.*

"The sext linked smoking with heart disease, lung cancer, chronic bronchitis and emphysisms, and other illnesses. Already in 1953, Senior Scholastic, widely distributed in Ohio schools, stated that "research has shown that long cancer is rare in a person who does not smoke.*

In 1960 Senior Scholastic quoted Dr. Alton Ochsner in his forthcoming book, Smoking and Cancer, as stating unequirecally that "tobacco is a loaded, often lethal weapon,"

Reader's Disest, April, 1964, 76.

See, for example, "The Surgeon General's Report," Business Week (January 18, 1964), "24; "Health Hazard," Newsweek, 63 (January 20, 1964), 48-50; "Government Report," Time, 83 (January 17, 1964), 42; "Latest on Tobacco and Health," U.S. News and World Report, 56 (January 20, 1964), 44-45; and "The Surgeon General's Report," Life, 56 (January 24, 1964), 56A-62.

John M. Lampe, Charles D. Oviatt, and Franklin C. Vaughn, Health and Safety for You (4th edition, New York: McGraw-Hill, 1975), 96.

Semior Scholastic, October 14, 1953, 18.

and that "time pulls the trigger." In 1970, the Ohio legislature specifically mandated instruction in the schools about the adverse effects of cigarette smoking, and this requirement was periodically renewed. 44

22. Was the message about cigarettes received by students? The answer is everwhelmingly yes, as shown by an "Institute of Student Opinion Poll No. 31," done for Scholastic Magazines, which polled 10,763 (5,598 girls, 5,165 boys) jurior and senior high action students from across the U.S. To the question, "What do you think about cancer and cigarette smoking?": 19.6% said only a heavy smoker ran a greater risk of lung cancer than non-smoker; 45.4% said all smokers ran a greater risk of lung cancer than non-smoker; 32.2% said there might be some connection but no conclusive evidence existed of a link. Notably, four years before release of the 1964 Surgeon General's report, only 2.6% were persuaded that no connection existed. Seven years later, Senior Scholastic Teacher stated confidently that "the scientific facts on the health hazards of cigarette smoking are no longer debatable. Students on almost all levels have heard state cigarettes are not good for them." In the aftermath of the 1964 Surgeon General's report, Lake County authorities announced a "crack-down" on

Senior Scholastic, January 14, 1960, 18.

See "Chapter 3301: Department of Education," in Timothy J. Sheeran, ed., Ohio Code Research Guide (Columbus, OH: Law Publishing Company, 1988), Title XXXIII, 3313.59.

⁶⁵ Senior Scholastic. February 17, 1960, 27.

Senior Scholastic Teacher, November 16, 1967, 18.

sale of cigarettes to minors. That same day, the <u>Troy Daily News</u> stated that it no longer would accept cigarette advertising, and the Ohio State Treasurer, John D. Herbert, reassured Ohioans that the "cigarette-cancer report" would not affect higher aducation capital improvement bonds to be paid for by a penny-per-pack tax on cigarettes.⁶⁷

23. Popular awareness about the health-threatening effects of cigarette smoking continued to be reinforced by pervasive attention to the issue by newspapers and national periodicals during the entire period from 1964 to the present. A most significant source of information increasingly proved to be television news programs and documentaries. The three major networks began to devote substantial attention to the debate over smoking and health in the mid-1950s. With the relasse of the Surgeon General's report, Smoking and Health in 1964, television's role in shaping public understanding of the issue expanded rapidly in Ohio and throughout the United States. CBS's Harry Reasoner's report on smoking battle in 1964 recounted conflict inside the Massachusetts Department of Public Welfare between those hostile to smoking and employees who admitted being "addicted" to cigarettes. The next year, Leslie Stahl on "Face the Nation" observed that despite evidence that smoking caused lung cancer, heart disease,

Cleveland Plain Dealer, January 14, 1964.

Edward R. Murrow's two-part report on CBS's "See It Now," which was broadcast in late May and early June, 1955 was a watershed in television coverage.

See, for example, the CBS news program, "Cigarettes: A Collision of Interests," which was broadcast in Kansas City by KMBC at 6:30 p.m., April 15, 1964, Kansas City Star, "TV Previews," April 15, 1964.

"and is addictive," 30% of the public continued to smoke. As influential commentator, Paul Harvey, noted in a column dealing with a report in the Annals of Internal Medicine that smoking caused premature aging of skin, people were ignoring generally available information about the health risks. "Don't you know that nudge (about wrinkles) had greater impact than all those surgeons waving scalpels at your lungs," Harvey sarcestically observed. "Maybe all we need for constructive self-discipline is less whip and more carrot."

24. Documentation about public awareness of the link between cigarette smoking and addiction from 1945 to the present closely parallels the material presented for smoking and health and, thus, only a few examples will be needed to illustrate that broad popular understanding of this relationship existed. Such new slang terms as "fag field," "nicotine fit," "hooked," and "cold turkey" explicitly linked cigarette smoking and addiction. That these terms earned broad popular acceptance in the 1940s, 1950s, and 1960s, despite the reluctance of scientists who had not yet found absolute proof to characterize the habit of cigarette smoking as addictive, merely confirms a basic axiom of the historian that people tend to act according to what they believe to be "truth" and not what may in fact be reality. The typical man or woman in the street was convinced that cigarette smoking was a nasty, deadly, difficult-to-break habit and that, by

[&]quot;Passive Smoking and Second-Hand Smoke," CBS, "Face the Nation," 1985.

Paul Harvey column: "Lung Cancer Didn't Scare; Vanity May," <u>Brazosport Facts</u>, December 26, 1971.

common definition, meant it was addictive. John A. Moore made precisely this point in his popular manual about quitting, How to Stop Cigarettes for Life. 72 The historical evidence presented in this affidavit is overwhelming that in America popular awareness of cigarettes, their danger to personal health, and their "addictive" potential was often ahead of technical and scientific opinion on the subject. Illustrating the point are examples of public awareness prior to the Surgeon General's promuncement about smoking and addiction in 1988 and the more recent disclosures about what was known or believed by tobacco industry executives.

25. In December, 1952, the <u>Cleveland Plain Dealer</u> reported that the Federal Trade Commission had sought to have cigarettes ruled a drug. Features in newspapers across the nation dealt with efforts to quit. One in January, 1954 observed: "Anybody who says the hold cigarettes has on a person is mostly 'psychological' is, for my money somebody who hasn't tried 'em. It's a subtle hold, too—and so strong we don't expect that this piece, or a thousand similar articles, would have any effect whatever. ... "74 The <u>St. Louis Post-Dispatch</u> reported that statistics showed most cigarette smokers thought the habit "is a major dauge of lung cancer and are not pleased to be smokers." Dr. Daniel Horn of the American Cancer Society commented that these results demonstrated cigarette

⁷² John A. Moore, <u>How to Stop Cigarettes for Life</u> (Mount Vernon, NY: John Oliver Company, 1964), 42.

⁷³ Cleveland Plain Dealer, December 11, 1952.

⁷⁴ Kansas City Star, January 1, 1954.

persons who thought it a cause of lung cancer would give it up. The Reader's Digest regularly reprinted its smoking/addiction articles from earlier years, and in November, 1954, published an original story, How I Stopped Smoking, by syndicated columnist Stewart Alsop. Referring to smoking as a habit and as dependency, "it is humiliating to feel the fear which a compulsive smoker feels at the mere idea of living without tobacco," Alsop admitted.

26. After release of the Surgeon General's 1964 report, stories proliferated electronary and in the Surgeon General's 1964 report, stories proliferated electronary. "Most Puffers Puff On, But Some Take Heed," the Kansas City Star announced." "It'll scare people now, but in two or three weeks they "If forget again," commented a man in Maple Heights, Cleveland. "A UPI article by Louis Cassels in late January, 1964 stated that the Surgeon General's report understated the problem by admitting that "smokers usually develop some degree of dependence upon the practice." Cassels said smoking was an addiction and that quitting required "will power, based on a clear and unwavering conviction that the things really are, as grandfather used to say, 'coffin nells.' One way to acquire this conviction is to sit down and read the committee's 387-page report."

St. Louis Post-Dispatch, March 10, 1962.

Reader's Digest, November, 1954, 27, 30.

⁷⁷ Kansas City Star, January 13, 1964.

⁷⁸ Cleveland Plain Dealer, January 13, 1964.

Stars and Stripes: Pacific Edition, January 22, 1964.

Reader's Digest. This article differentiated between addiction and habituation but noted—whether physiological or behavioral mechanisms were involved—quitting was not easily accomplished. The U.S. Children's Bureau launched a nationwide anti-smoking campaign aimed at school children that stressed the difficulty of quitting. "Some people can't stop biting their fingernals. This is a bad habit and it is hard to stop it. Cigarettes are bad habits. Many people get used to smoking them and then find it is very hard to stop," the booklet warned. Senior Scholastic provided a pragmatic perspective on the issue of addiction. After reviewing the Surgeon General's 1964 report, it said the public had to decide what to do. "Like so many other matters, smoking seems to come down in the last analysis to a personal choice." As recently as 1988, Jack E. White, writing in Time, confessed that he was "a slave to cigarettes," and one of many "nicotine freaks who have tried repestedly to kick the habit and failed."

28. Addiction was dealt with extensively by the visual media. In "Damn Yankees" (1958), Rusa Brown advised Tab Hunter that the "only thing that comes easy is the cigarette trick. Now I'm trying to break myself of the filthy habit."

Films such as "Cold Turkey" (in which an entire town sought to give up smoking

Reader's Digest, May, 1964, 64.

U.S. Children's Bureau, "Why Nick the Cigarette is Nobody's Friend," Publication No. 447 (Washington, 1966), 3.

Senior Scholastic, February 21, 1964, 17.

Jack E. White, "Confessions of a Nicotine Freak," Time, April 18, 1988.

cigarettes), and-most recently-"Blue in the Face" reaffirmed popular stereotypes about the addictive character of smoking. Television news programs and documentaries gave particular emphasis to the smoking-addiction relationship.

Edward R. Murrow's "See It Now" examined cigarettes and lung cancer in 1955.**

President Dwight D. Eisenhower's statement in 1957 during a filmed press conference about his decision to quit smoking was publicized widely via television.** CBS broadcast its highly-publicized "National Smoking Test" in 1968.

Onward through the 1970s and 1980s, television documented the public's consern about the habit of cigarette smoking. In 1985, CBS's "60 Minutes" admitted that the national anti-smoking campaign had not curbed American appetite for cigarettes.** The Surgeon General's report on nicotine addiction in 1988 simply served to confirm what most Americans had believed for decades.

effects is available to anyone who examines the historical record. Whether the historical writes political as social history, he or she can recreate an accurate

This program was broadcast by CBS affiliate at various times. For example, KMBG in Kansas City aired it at 8:30 p.m., May 31, 1955, and a second installment was shown on the following Tuesday, June 7, 1955, Kansas City Star, May 31, 1955.

Acknowledging that he had been a heavy smoker, President Eisenhower said: "No doctor ever told me I should stop. But for me it was easier to just stop and I will only say this...if a person turns their mind to something else and quits pitying themselves about it they won't find it nearly as hard as they figured," author's transcription of President Dwight D. Eisenhower press conference, May 31, 1957. See New York Times. July 1, 1957.

In an interview Geraldine Brooks admitted: "I was an addict. I used to smoke 60 cigarettes a day," CBS, "60 Minutes," "Cigarettes and the Public Health," 1985.

examples I have provided in this affidavit could be multiplied many, many times.

They constitute only a small part of the research that I have conducted. However, in my professional opinion, this research has yielded persuasive evidence that for more than two hundred years and all through the 20th century information from a wide range of sources about the health-threatening and addictive consequences of smoking was widely available to both Americans and to residents of Ohio.

| smoking w | as widely | available to both Americans and to residents of Ohio. |
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| The | foregoing | facts are stated, under oath, upon my personal knowledge. |
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Mr. Walkan. Thank you very much, Mr. Campbell. We do have questions, but we're going to hear from all of the witnesses beformembers on the panel ask their questions. Mr. James Johnston? Please pull the microphone in front of you?

TESTIMONT OF JAMES W. JOHNSTON

Mr. Jaures Johnston. Good morning, Mr. Chairman, members of the subcommittee. Again, I am Jim Johnston, chairman and chief executive officer of RJ Regrodds Tobacco Company. I appreciate this opportunity to discuss a number of important issues concerning the tobacco industry.

I am proud to be here to day to speak for the 45 million adults who choose to smoke, and the growers, retailers, and the other 2.3 million Americans who are part of the tobacco industry. I am proud to represent the more than 10,000 people at Regrodds Tobacco, who are dedicated to making the best eigenvites that we can make.

My company and I that very seriously the allegations that have leveled against us. And I would like the record to clearly show that Rymolds Tobacco does not spike its products with nicotine. In fact, our process results in the lose of nicotine. We do not adult, there is no justification for the FDA to regulate cigarettees as a drug.

I also want to talk to you about the real issue before the American sould this subcommittee. The real issue before the American to show you bow they hope to achieve that goal.

But, first, I want to address the grodulets. This morning I intend to show you bow they hope to achieve that goal.

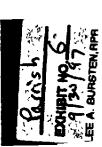
But, first, I want to address the charge that Reynolds Tobacco manipulates the level of micrime in its products, the goal of the anti-smoking industry is to bring something sinister to addict smokers or to keep them addicted. We do not, to we product. We do mornior and measure tar and abouthe yields because we are required to publish those figures in our severtising. And we do maintain the consistent tarts and goality of our brook smokers or to keep them

Let me repeat, we do not manipulate nicotine to addict smokers.

We no more manipulate nicotine in eigenette than coffee manufacturers manipulate caffeine in their products. There is nothing shister about it.

I think the subcommittee abould also be aware that Dr. Kessier's definition of addiction would classify most coffee, cole, and teadrinkers as addicts, caffeine addicts. Many people experience a strong urge for a cup of coffee each morning, and there is a well-documented physical withdrawal syndrome associated with the consumption of coffee and caffeinsted seft drinks.

Nonetheless, I seriously doubt that the American public would say that these characteristies put caffeine in the same class as addictive drups such as occaine and heroin. And I don't think anyone would seriously suggest that the FDA consider regulating coffee, test, or sods as drugs, even though soft drink manufacturers routinely add caffeine to their products.



in the same vain, the manufacturers of alcoholic beverages constrainty monitor the alcohol content of their products through the fermentation process to precisely control the level of alcohol. In addition, some wines are fortified with added alcohol. Monethaless, Raynolds Tohacoo is not sware of any efforts to regulate with a few of their of the recent controversy surrounding our products is focused as are use of various steiniques that help us reduce the tar and nicotian yields of our products Lat me be clear. We could stoly using those techniques. We would chop up the tobacco and roll for pages that the consequence of doing that would be a return to the 1970, when the average-ciprette yielded of milligrams, 2.6 milligrams a motion. That we satisfacts are administrated in our eigenstess by 300 to 400 percent. I trust this committees would not eigenstess by 300 to 400 percent. I trust this committees would not eigenstess by 300 to 400 percent. I trust this committees would not eigenstess by 300 to 400 percent. I trust this committees would not eigenstess by 300 to 400 percent. I trust this committees would not expert immediately apparence. He anhances the tester of the smale and the way it feels on the smaler's palase, and the contributes to the certail smalers apparence. During the past several waves there have been game and tester to the smaler of palase, and the contributes to the death ambient apparence. During the past several season dearward moneting superismes. It cannot generally any analysis to convice the American public that degrees of few see up to degreetes in the same class at cosmics and harden.

You don't need to be a trained ministrate are addictive, and come public officials have even game so few as any of degreetes in the same class as cosmics and the part of a green part of a green part of a province of the monetal and their or anothed cooline, or abot herein; proposed cone pills?

Sconne II eigenstate to the markets and cocains.

I agree that the policy who just hands a couple of been, and



"Reduce tar and nicotine." We lower those levels and they say, "It doesn't matter, regulate those products as drugs."

Let me cite just two examples. When Philip Morris introduced a cigarette that was essentially nicotine-free, the Coalition on Smoking OR Health called it, quote, "The most dangerous product put on the market in the last 10 years." And they petitioned the FDA

Several years ago our company test marketed a cigarette that had virtually no tar and less micritne than 97 percent of the cigarettes on the market. It virtually aliminated second-hand smoke, and was essentially fire acid. The response? The product and our company were victously attacked, and petitions were filed with the FDA to ban the product. The bottom line is, in the eyes of the anti-smoking industry, we can do nothing right short of firing our employees and going out of business.

A good example is the recent use of scare tactics concerning the ingredients used by the tobacco industry. Ingredients are added to our product to enhance the flavor and aroma of our products. And all the cigarettes we make, 98.99 percent of this Winston cigarette, and all the cigarettes we make, 98.99 percent is tobacco and ingredients that can be lawfully used in foods. The other 1/100th of I percent that can be lawfully used in foods. The other 1/100th of I percent are incorrectly reviewed by a blue ribbon panel of experts, acidnific experts, toxicologists, who have concluded that those ingredients are, and I quote, "Not hazardous under the onditions of use." So let's be clear about the fact that the anti-smoking industry's call for a smoke-free society by the year 2000 is little more than a thinly valid attempt to achieve back door prohibition.

If you don't believe that is the case, just look at how extreme of these efforts are, like trying to probes prohibition whether ing outdoors, in public parks, in their cars, or even their own industry that the first panel with the anti-sloched morement, claiming that their goal was simply temperance. The American public overwhalmingly opposes prohibition whether alcohol morement, claiming that their goal was almohared with the back door. So let's be clear about the first that back door prohibition whether alcohole morement extensively at the two or back door prohibition. Back door prohibition.

Banning advantaging that the first described by and the back door prohibition. So call the

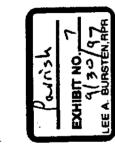
And advocating that the FDA regulates digarettes as a drug, which would effectively ban digarettes from the market, is clearly back door prohibition.

If any member of this subcommittee truly believed that cigarettes are too dangerous to be sold, then stand up, vote for prohibi-

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http://legacy.lib<u>rary.ucsf.edu/tid/zrq07e0\$/ndfee-bil</u>

[Testimony resumes on p. 590.] [The prepared statement of James W. Johnston follows:]



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DINGUES PÀ ELEC

- R.J. Reynolds Tobacco Company ("Reynolds Tobacco") welcomes this opportunity to respond to the inaccurate and misleading artacks that have precipitated these hearings. For the past several weeks, Reynolds Tobacco and the rest of the tobacco industry have been bombarded with spurious and inflammatory claims. Our responses to these charges are simple and straightforward:
 - Does Reymolds Tobacco add micotine to its products? No.
 - Does Reynolds Tobacco manipulate nicotine yields to create, maintain, or satisfy "addiction"? Again, the answer is no.
 - Doss Raynolds Tobacco hold patents for technology that relates to
 modification of nicotine yields independent of 'tar' yields? Yes, in
 fact, for years some governments, smoking and health critics, and
 international public health scientists have encouraged such
 developments in cigarette design.
 - Is Remaids Tobacco asing such technology commercially? No.
 - Is expresse smoking an "addiction"? No, eigerests smoking is not an "addiction" under any meaningful definition of the term, including the new definition presented by Dr. Kessler before this Subcommittee.

There is no factual or policy basis to regulate or ban cigarettes as drugs simply because they contain nicotine or simply because cigarette manufacturers have the ability to reduce the nicotine yields of their products. This company is not engaged in some sinister plot to decrive the American sinoter.

Progress or Probibition

If this Subcommittee fairly and objectively evaluates the true facts about cigarette design, it must find that the efforts of Reynolds Tobacco and others in the industry demonstrate a remarkable record of achievement and progress. This company is justifiably proud of those accomplishments and of the dedicated and talented employees who have

contributed and now contribute to them. We regret that others seek to advance an agenda of prohibition over progress.

Today, we are here to discuss whether there is a basis for FDA regulation of cigarettes as drugs. Contrary to many reports, this issue is not novel. In fact, the question has been advanced and rejected many times before. For example, twenty-two years ago, the Commissioner of the Food and Drug Administration (FDA), Dr. Charles C. Edwards, testified at a hearing similar to this one before the Consumer Subcommittee of the Senate Committee on Commerce. Dr. Edwards stated, "Cigarettes and other tobacco products would be drugs subject to the Federal Food, Drug and Cosmetic Act if medical claims are made for the product....... However, cigarettes recommended for smoking pleasure are beyond the Federal Food, Drug, and Cosmetic Act. Tor. Edwards was echoing a conclusion that has been consistently seached — both by FDA and the courts prior to and after his statement.

Three weeks age FEA Commissioner Dr. David Kessler appeared before this Subcommittee and testified extensively concerning the "task facing the FDA," which he characterized as "to determine whether nicotine-containing cigarettes are 'drugs' within the

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To Amend the Federal Circursta Labeling and Advertising Act to Require The Federal Trade Commission to Establish Acceptable Levels of Tar and Nicotine Comment of Circurstee. 1972: Hearings on S.1454 Before the Consumer Subcommon of the Senate Comm. on Commerce. 92nd Cong., 2d Sess. 239 (1972) (statement of Charles C. Edwards, Comm., FDA).

See, e.g., FTC v. Lignett and Myers Tobscon Co., 108 F.Supp. 573 (S.D.N.Y. 1952), affd on on below, 203 F.24 955 (24 Cir. 1953); Letter from Donald Kennedy, Commissioner of Food and Drugs, to John F. Banshaf, III, Dict. No. 77P-0185 (December 5, 1977); Action on Smoking & Health v. Harris, 655 F.2d 236 (D.C. Cir. 1980).

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meaning of the Federal Food, Drug, and Cosmetic Act." All cigarettes sold are "nicotine-containing cigarettes." and indeed the tobacco plant is known as nicotiana tabacum in recognition of the fact that it naturally contains nicotine. Moreover, the facts relevant to whether FDA has jurisdiction over cigarettes today are substantially the same as when Dr. Edwards testified in 1972 and when the FDA rejected petitions to regulate cigarettes in 1977 and on other occasions. At those times, as is the case today, a variety of cigarette brands was available to consumers which yielded a variety of "tar" and nicotine levels. Through advances in cigarette design and in response to consumer preferences, however, the average cigarette sold today yields one-third less "tar" and nicotine than when Dr. Edwards testified. Cigarette Design

How and why have these reductions in "tar" and microtine yields come about? To evaluate these questions completely, it is imperative to consider the evolution in the design of eigeneties over the last forty years — an evolution that, in its purpose and effect, differs significantly from the grossly inaccurate allegations and misrepresentations by our critics in these proceedings and recently in the press. In short, Reynolds Tobacco designs cigarettes to respond to consumer demand and to attempt to address the many scientific and other criticisms that have been leveled at our products for more than forty years. Today's cigarettes reflect the enormous efforts to respond directly to consumer demand and those criticisms and suggestions. A very brief discussion of the history of cigarette design will illustrate why these recent claims are misguided.

Early cigarettes were primarily out tobacco (much like pipe tobacco) wrapped in paper, with flavorings such as the oil of citrus peels. The quality of a cigarette depended

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primarily on the single type of tobacco it contained - Turkish tobacco was used in premium cigarettes and domestic air-cured or flue-cured tobacco was used in less expensive cigarettes. The first American blend cigarette, which combined both Turkish and domestic tobacco, was Reynolds Tobacco's Camel brand, introduced in 1913. Although slightly different blends and different materials were used in cigarette manufacturing, cigarettes remained largely manufacturing cigarettes remained largely

At that time, must cigarettes produced in the United States were made from fluecured, burley and Turkish tobeccus. They were 70 mm long and unfiltered. When smoked, these digarettes yielded an everage of 40 mg of "tar" and 2.8 mg of nicotine by methods comparable to those used by the United States Federal Trade Commission (FTC). (The FTC methods became official in 1969).

A number of watershed developments in the early 1950s led to another evolution in tigarette design. Several epidemiologic studies published during the early 1950s reported that there was a statistical association between eigerette smoking and lung cancer. Also, in 1953, Dr. Ernst Wynder and others published the results of a mouse skin painting experiment in which the researchers observed skin tumors on the backs of mice exposed to eigerette smoke condensate. All these studies were widely publicized in the general media and the media coverage affected consumer demand. Reynolds Tobacco in turn has made extensive efforts to respond to these scientific theories and demands and the tastes of its consumers to produce a broad array of products.

Since the 1950s, Reynolds Tobacco, among many other lines of research, has pursued two basic lines of research and development in this area: (i) identification of individual

constituents in tobacco smoke and development of technology to attempt to reduce or remove those of potential concern, and (ii) development of new technologies to reduce yields of "tar" and micotine generally. The first line of research has had limited success; the second line of research has been remarkably successful.

Scientive Reduction

During the 1950s and early 1960s, many researchers focused on one chemical constituent of smoke (or a family of constituents) in the search for a "cancer-causing" agent that would explain the epidemiologic and skin painting results. This focus turned to disappointment, as reflected in the 1964 Report of the Advisory Committee to the Surgeon Ganeral's Report"). From the mid-1950s until today, a succession of constituents has been targeted by the biomedical community. Even today, however, the biomedical community has been unable to agree on which, if any, of those constituents is responsible for the reported association between cigarette smoking and lung cancer.

Cigarette manufacturers and others explored and published numerous methods to reduce or eliminate individual constituents (or a family of constituents) in cigarette smoke.

La reducing the temperature at which the cigarettes burned, breeding tobacco plants to change the chemical composition of the tobacco, and adding different types of filters or other filtration mechanisms to the cigarette. Unfortunately, manufacturers faced a moving targettes the focus changed from constituent to constituent. Constituents of concern at one point in time were later determined by the scientific community to be of no significance. Moreover, techniques that might have selectively reduced a constituent in the laboratory

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constituents have not been successful **commonly** another constituent 5 general effora ៩ sonpar a individual

General Reduction

directed their researth to attempt to reduce levels of all constituents. This approach, also compounds more advocated by researchers such as Dr. Erast Wynder, offered advantages over selective During the same period, Reynolds Tobacco and other cigarette manufacturers also or less proportionately. to the reduction of total smoke yields and the levels of individual

moke is. Smoke To understand th implex mixture - it consists of a particulate or "tar" phase as well concept of general reduction, it is essential to understand what Since the mid-1950s, eigerette manufacturers have devoted general reduction in "tar" and the vapor phase components

produce

Filtration

Expended tobacco

Filter ventilation

filtration, and the use of expanded (or "puffed") tobacco and reconstituted tobacco made Design changes such as the development of more porous cigarette paper, improved

levels. Cigarette designers have been so successful in their efforts to respond to the demand for these reductions that today there are commercially available cigarettes that yield "tar" and nicotine at levels so low they cannot be measured reliably by the FTC's standard procedure. In 1979, the Surgeon General listed more than 25 different design techniques that reduce yields of "tar" and nicotine. Each of these techniques has been well-publicized and known to the government, public health, scientific and even lay communities. A brief artifysis of these design achievements demonstrates the effectiveness of general reduction methods to achieve lower yields of "tar" and other smoke constituents.

general reduction possible. By utilizing one or more of these techniques, digarette

manufacturers can offer smokers a variety of cigarettes with a range of "tar" and nicotine

The earliest developments included the cellulose acetate filter, use of porous paper, use of reconstituted tobacco. Each of these developments was in place by 1965, and starf and nicotine yields had been reduced dramatically. After 1965, the principal design

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See, e.g., Federal Trade Commission, "Tar," Nicotine and Carbon Monoride in the Smoke of 207 Verieties of Domestic Cigarenes 2-3 (1985).

Public Health Service, U.S. Department of Health, Education, and Welfare, Smoking and Health: A. Report of the Surgeon General 14:110 (1979) ("1979 Surgeon General's Report of the surgeon General 14:110 (1979) ("1979 Surgeon General's Report were genetics and breeding of tobacco plants, planting density, mirrate fertilization, applying agricultural chemicals, topping the tobacco plant at different stages, altering the type of tobacco, altering the position of the stalk, changing the nitrate content, selecting tobacco with specific constituents (e.g., proteins, carbohydrates resins), curing, homogenized leaf curing, grading, fermentation, solvent extraction, tobacco expansion (fre-sze-drying), additives, blending, changing the amount of tobacco, changing the amount of tobacco, changing the amount of tobacco, varying the tobacco cut, using porous cigarette paper, perforating the cigarette paper, smoke filtration, and perforating the filter tips. Id. at 14:108-1-1.

breakthroughs were expanded tobacco and air dilution through perforation of cigarette filters. Expanded tobacco resulted from the search for ways to reduce the volume of tobacco in each cigarette in order to reduce "tar" and nicotine yields. The tobacco is "puffed" or expanded in order to allow the same amount of tobacco to occupy more space, much like popping popcorn. As a result, each cigarette is filled with less tobacco, there is less tobacco available to be burned, and the yields of "tar" and nicotine are therefore seathced. Reynolds Tabacco developed expanded tobacco and was the first to introduce it commercially, in 1962. In fact, Reynolds Tobacco licensed this process to others in the ladustry for commercial use throughout the world.

In the late 1963, scientists discovered that perforating the cigarette filter allows air so mix with the mainstream smoke, thereby diluting the smoke and reducing the total yields of "tar," and micotine. Air dilution also reduces the burning temperature of tobacco and causes less tobacco so be burned per pull, thereby further reducing the "tar" and nicotine yields. Perforated filters were first sold commercially in about 1972. By 1981, approximately 50% of all digarette brands sold had perforated filters.

By 1981, the sobacto content by weight of the average cigarette had declined by 23.8% through the use of expanded tobacco. In some ultra low-tar brands, expanded

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Public Health Service, U.S. Department of Health and Human Services, The Health Consequences of Smoking: The Changing Cigarette. A Report of the Surgeon General 209-10 (1981) (1981 Surgeon General's Report).

⁶ Id. at 209-10.

tobacco was used to a much greater extent to reduce the weight even more dramatically." Thus, as part of the election techniques to achieve lower yields of tar and other smoke constituents, the amount of tobacco in eigarettes has been reduced, with the corresponding result that the smoke mootine has also been reduced dramatically, The cigarette dusign efforts discussed above have been reviewed and commended by settime supported a jaugram to develop a less bezardous descens. This effort involved schoolly, public health groups, and universities. Reynolds Tobacco and government and other scientists. For example, from 1966 through 1978, the National Cancer ers perticipated in this program. The NCI program evaluated designs - many of which had abready been incorporated in major manufacturers. The results of this program indicated that the general reduction approach as described above was the best approach to respond evaluated by the NCI group had been developed by the United States tobacco industry and ne of eigerettes. Importantly, virtually every design variable that was utilised in a commercial brand. diameter cigarene manufactu to the scientific articles government, tobacco Connercial ciparette Over 100 different

In 1979, scientists involved in the field of smoking and bealth came together at the previous twenty-five years in response to the smoking and 9000 mere published, onference reviewed virtually all work that had been aith controversy. All of the papers presented at the Banbury conference cigarettes dortage the į conference Bushin Podity

percent nicotine in Reducing the amount of tobecto has a Keasler's 'surprise' at acy, the percent aicotine in the tobacco itself might be the same or slightly higher than the especially significant because it addresses Dr. facting that, far some brands in the ultra low-tar" cate major influence on the micotine yield to the smoker. higher-yield digarence. tobacco used This point is

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together with all the debate and discussions. The consensus among scientists participating in that program was that overall "tar" and nicotine reduction was the most effective and Hoffmann Dietrich ፭ Several scientism, including wledged the restionsiveness of the tobacco industry. appropriate approach. HOSE

I do think the tobacco industry, volumenty or not, adjusts very well to the demands of the logical responing of the scientific community and that we should comines on this path.

In Dr. Kessler's March 25, 1994 statement, he asked the cigarette companies to The clear intent behind eigurette se to the demands and tastes of today's adult smokers and to n and remains to manufacture and market a broad range of it, there is a range of 'tar' and micotine levels. As noted earlier, Within the setically results in roughly proportional reductions in nicotine That is seen by the dramatic reduction in both 'tar' and microtine achieved by and pack to pack consistency within a brand. Regardeds Tobecco and Other eigenests manufacturers since 1955. defens the intent of ciparette dexign developments. cigrette to cigaratte universe of ciparens produ esign developments Tare printeds : parette products in reducing O THE

In 1957, Dr. E ass Wader and others called for efforts to reduce 'tar':

a filter-tip capable of filtering out 40 tar would be a step in the right direction placed on a regular-size equivate which s shown both by animal experiments and human ter in its smoke, would reduce r's tar exposure to about 18 milligrams. Chical purposes. sormelly yields 30 mil o that level. For pri

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wements', Banbury Report Dietrich Hoffmann, Discussion in Risk Reductio 3 - A Safe Cigarette?, pp. 155-178 at 174 (1960).

restamejority of today's digarentes are 85-100 mm long, have filters and yield an average of Mar of 'tar' and 0.3 mg of micotine. Some eigenettes now available yield less than 1.0 The tobacco industry less accomplished this objective - and has gone much further. magnet 'tar' as measured by the FTC method.

These "ter" and micorine reductions have largely been achieved through innovations in cigarette design - invavations pioneered by Reynolds Tobecco and other members of the obacco industry. Since the complexity of smoke provides a eigerette with its taste and other way properties, many of these reductions in 'tar' and nicodus have come at the expense Some smollars are unwilling to sacrifice flavor for reduced har." est to develop new eigarette designs. flavor.

innesic that in the face of the overwhelming recommendations of just such an spreach, certain public and private critics of eigerethes have decided once again to attack at up stop, if not to reverse, the extensive design innovations that other public and private critics have encouraged over the year. the inchestry - and to a

at Micrine Ratios

it. The fact that 'ne' to micotine ratios are not exactly the same for all cigarettes is not does not manipulate the micotine in its products to create, Claims to that effect are false. As "tar" yields have been and over the years, montine yields have also been reduced, roughly in proportion to the in, or satisfy "a diction". Reynolds Tobuson

TIMIN 0046277

Mattor, L. and Monahan, S., "Wanted - And Available - Filter-Tips That Really Filter," Reader: Digney, pp. 43-49, 44 (August 1957) (quoting Dr. E.L. Wynder).

news to anyone familiar with tobacco products or to anyone who has reviewed the extensive "tar" and nicotine reports published by the FTC.

Reynolds Tob-cco's cigarettes contain approximately one and one-half to two and one-half percent nicotine, depending upon the tobacco blend. When burned, these cigarettes yield varying amounts of "tar" and nicotine. "Tar" to nicotine ratios, while not constant, are very closely linked because both are found in the perticulate phase of smoke. As "tar" yield is reduced, through filtration, paper porosity, expansion, and other design parameters, nicotine steld it also reduced. Filters, however, are slightly more efficient at reducing "tar" yield than nicotine yield. This is due to the fact that cellulose acetate, the primary filter material used by Reynolds Tobacco and others, was developed to reduce "tar" yield. The ability of these filters to reduce the gas phase constinuents is somewhat limited. Since a small amount of nicotine (unlike "tar") is found in the gas phase of cigarette smoke, as well as in the particulate phase, slightly more "tar" is filtered out of the smoke, proportionately, then nicotine. Thus, as yields are reduced, the ratio of "tar" yield to nicotine yield is reduced slightly.

In response to the fact that "tar" and months are so closely and naturally tinked in cigarette substantiancy public health officials and others have suggested that the tobacto companies should attempt to develop cigarettes which break that link. In other words, we have been encouraged to develop cigarettes with reduced "tar" while maintaining migotine yields. Notable among officials who have encouraged such development is the Independent Committee on Smoking and Health of the United Kingdom, which recommended in 1943 that "... there should be available to the public some brands with

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low levels of tar and a proportionately higher nicotine yield."¹⁰ According to one recent publication cited by Er. Kessler in his testimony:

One proposal has been to develop tobacco that is high in nicotine but low in tar. This is not easy to do naturally; nicotine and tar are highly correlated in the tobacco leaf. One method would be to add nicotine to a low tar, low nicotine cigarette. If

The fact is many acleutists, government and/or public health officials have suggested reducing "tar" to microsine ratios as a way toward potential progress in cigarette design. 22

Much as the (nthistry responded to calls to reduce "tar" and nicotine yields in the 1950s and 1960s, Reynolds Tobacco has devoted research to responding to these calls to reduce the "tar" to a cotine ratios. Out of the hundreds of patents issued to Reynolds Tobacco personnel over the years, Dr. Kessler referred to nine Reynolds Tobacco patents during his recent testimony to this Subcommittee. These patents reflect work that Reynolds the done in this area. As Dr. Kessler recognized, however, patents do not necessarily reflect what is being used in greatice. While Reynolds Tobacco has been able to develop a digarette which disastociates "tar" and nicotine in the laboratory, it has not been able to active an acceptable commercial product. As stated above, this is not easy to do because

Third Report of the Independent Scientific Committee on Smoking and Health of the United Kingdom (1983).

Schelling, T.C., "Addictive Drugs: The Cigarette Experience." <u>Science</u> Vol. 255:430-433 (1992).

See, e.g. "UICC Tobacco Control Fact Sheet 3," Tobacco and Cancer Programms, International Union Against Cancer (March 1993); Editorial, "Monsieur Nicot's Legacy," Lanct II (8249): 763 (1981); Russell, M.A.H., "Smoking and Society (There Is No Question)", Rehabilitation, 32 (1-4): 41-42 (1979).

by lobacco companies as Dr. Kessler appears to characterize it. In fact, none of the nine Keynolds Tobacco pa ants cited by Dr. Kessler has been used commercially. to the consumer, it would appearently be welcomed and encouraged by European "tar" and nicouse are to highly correlated. If we could develop such a cigarent acceptable governments and public health officials, rather than being characterized as some sinister plot

Fublished FIC Tar' and Nicotine Yields

not defined by Dr. Kessier, is not a concept known to or understood by Reynolds Tobacca. of induces used in it's cigarette blead, which are chosen because of their baste and other properties.N rome carefully compound "addictive level." The concept of an "addictive level", raised but The amount of microtine present in a cigarette is in large part a result of the choice It is not pres 测数y similar concept is used by Reynolds Tobacco in the design of ent as a result of a decision to "manipulate" nicotine levels to what the concept means, and we are unaware of any data

Strass scientism recognized the attributes of Premi burned toba course, and emoking activists launched a vigorous attack on the cigarette -it virtually eliminated "tar", it vastly s thetatic surrounding this entific criticisms that ha that bested rather than (1962): 109-129 (1992). d, and some United the

A variety of agricultural factors and practices influence these properties, including for example, tobacco type, stalk position of the leaf, curing practices, and crop year.

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that give it meaning. Further, what is relevant is not what is present in the ciparette, but what is present in the moke Dr. Kessler has made much of the fact that the FIC mmbers do not necessarily EPA mileage estimates do not reflect the precise fuel economy that will be achieved by adictional amoisers may emoke any given eignrette, the fact remains that the lower the yield by RIC members, the ligner the yield will be to any given amoker. The yield for any given for some it will be lower, but overall, the FTC yields are generally predictive of the yield stock every senomobile driver. The important point is that in spite of broad variations in how smoker will probably he different from the FTC yield; for some smokers it will be higher, st smokers as a group. The statement, bowever, that 'In reality' low yield eigarettes do not whels for "talk and nicetine, is not true. In work published by members of the Series Federal reflect the precise "tar" and nicotine yields for every smoker. This is certainly true, just a associated with reduced wer yield eigerettes institute of Tech

Stars the FTC ethod specifies that the agreette is smoked to within 3 millimeters of the Upping a ion of Dr. Kauler's misunderstanding of eigerettes relates to his wereyrap, and Dr. Keesler stated that the tobacco within the overwrap was still anokeable sessionents concerning tow "tar" digerettes. He stated that from 1967 to 1978 eightness derwent increases in overwrap width, resulting in less tobacco smoked by macitine smoking is accordance with the FTC method. mends of Otter eigeneties up Another indic absorption.15

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ind Beharing, Vol. 40, 139-149 "Nicotine Yield as Determinant of Smoke Exposure Indicators and Pharmacology Biochemistry Hofer, at al., "Nicod Puffing Behavix: (1991).

and has not increased the width because that would reduce pull count and the value to our consumers. But, more importantly, the tipping overwrap simply is not smokeable. No (and would be smoked by the consumer), he concluded that these brands deviously "cheat" the FTC method. That is not true. First, Reynolds Tobacco uses standard tipping overwrap kmoker would consciously smoke the overwrap more than once. The tipping paper, because if is not imended to be smoked, imparts a significant offersts to the eigerette smoke.

Finally, in his Testimony before this Subcommittee, Dr. Keesler used several charts a widely publicized) to support his contention that the nicotine/tar rettes has increased since 1982 on a sales weighted basis. This Moids Tobsoco as much as it surprised Dr. Kessler. Company to duplicate Dr. Kestler's charts, using the identical FTC data offy employed by Dr. Kessler's staff, our scientists cannot est 'tar' category decreased slightly between 1962 and 1991 vered by Dr. Kestler's charts. We have, in fact, asked FDA staff its and complete methodology. We would welcome the rould have a full opportunity to understand and review the procedures used and at, our results show exactly the opposite - nicotine yields and Min and methodology used by FDA staff to prepare these charta. ble brand sales data of which this company is aware. uplicate these findings. In ine/ter ratios to the ellegation surprised (leg Cientists immediately at sembers to provide me the only publiclytime period co rtunity to review gatio for the lowest (which here since applying the

The "Addiction" Hypothesis

E evidence to support this claim. They ignore significant and meaningful differences between cigarentes are "addictive". Dr. Kessler and our other critics rely on salective and incomplete action reference A major premise of the charges against the eigarette industry today is the claim that s and truly 'addictive' drugs. or activity as "addictive" do not permit our critics to fit eigenette smoking nicely existing crimeia these critics resort to a simple tactic to further their agends -The standards and change the definition of "addiction" and its alleged When long-established criteria for labeling a

smoking did nox peral altered In 1964, the The 1964 Ad the definition to fit the cristing data on smoking. In exsence, the Surgeon whitery Committee to the Surgeon General recognized that cigarette Committee Report to the Surgeon General defined "addiction" established criteria for "addiction."16 in 1988, the Surject

chronic intunication produced by the of drug (natural or synthetic) whose

The overpowering desire or need (cor

3 i i overpowering the desire or need (compulsion) we drug and to obtain it by any means;

pròduce

'(Z)- . A rendersty to increase the dose;

(3) A psychic (psychological) and generally a physical elependence on the effects of the drug:

*(4) Detrimental effect on the individual and on society"

The Report concluded that tobacco smoking was properly classified as 1964 Surgeon General's Report, 351, 354.

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General moved the gualposts after he located the ball on the field. We categorically reject the claim that digaretes are "addictive", and we know that an objective review of the facts and science supports our position.

Dr. Kessler defined "addiction" in terms of four elements:

computative use psychosorive effect reinforcing behavior withdrawal symptoms

When each of these Bemeuts is carefully analyzed in an unbiased manner, it becomes clear and the definition, it still does not properly encompass cigarette o more "addictive" than coffee, tea or Twinkies. 17 cigarette smok spite of the efforts smoking.

This concept of compulsive use, like the definition of a redefinition in an attempt to encompass cigarette mition of "addiction", as used in the 1964 Surgeon General's Ä 4 computative use seen with hard drug addiction as "an overpowering desire or need (compulsion) to continue taking the drug and obtain it by any means. seen with truly "addicting" substances like cocains and heroin. Report property define 日月月 moking

M. The rine in true () Complication of Modern Surpery? Archives Surpery? Archives Surpery? Archives of Head and Neck Surpery, 112: 870-672 (1966); Corny and Cerny, 112: 670-672 (1966); Corny and Cerny and Ce In Day Y Add 57:1195 Cas Carrots

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desire is overpowering and leads to criminality and violence, if necessary, to satisfy the need for the drug In the 1988 Surgeon General's Report, the term "compulsive use" was expanded to behavior or activity. I'eopie have strong urges to eat sweets, drink coffee and watch their They are not in rresistible need of the hard drug addict and a "strong urge" to engage in a pleasurable the throes of an overpowering desire to use and obtain cigarettes by any means. They do include behaviors driven by "strong urgest." There is a world of difference between the compulsion excelles addices whose very real compulsion to take this instions where they resist the urgs to smoke. It is mistereding to label these types of "urges" rorite soup operat.

enstanty characterized as addicted and thus unable to quit. Since 1974, more than 40 million people have To quit, you have to decide you want to quit. without any outside intervention or assistance. ed smoking pers Common sense beliv andidiy Smoters are

upes their lives, their families and their occupations

monicating drug total

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Leonard Larson, Scripp Howard News Service.

This is not to say that stopping smoking, or changing any well-liked, habitual behavior is easy. It takes effort and commitment. But, the process is not different from successfully losing several pounds and maintaining the weight loss or developing a regular exercise program. It is completely different from successfully recovering from hard drug addiction or alcoholism. The true addict must overcome severe physical withdrawal, rebuild every aspect of his life, her in new value systems, and approach life without being constantly interdented. None of here impediments is present in stapping smolting.

Originally, the scientific community described the term Fig. eliminate this inconvasient truth, the 1968 Surgeon General's of hard drugs and alcohol that sets them spert and causes maddled thinking and loss of self Prychoactive to include as necessary component, distortions or disrupcions in cognitive ayday sabatancas a od common pleasant experiences (such as watching sporting events or standing to music) also produce psychoactive effects similar to those from smoking. They the graits unlike the pastitional effects caused by hard drugs and alcohol. It is the innocication and motor performance, Le., intodestion. Those concepts were in effect for decades and 966 Surpeca General's Report." Smoking/nicotine, however, does re" to mean anything that gets to and produces effects in the Based on this improvedes and revised definition, nicotine is psychoactive. So too is e and soft drinks. Sugar, warm milk, cheeses, and many other chea affeins in chocoless, coffe Prestorative ner produce (miradeati) Report redefined 'ps Pers included in the

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Robinson, 11: and Pritchard, W.S., The Role of Nicotine in Tobacco Use."

Exchooleams cology, 108, (4): 397-407, 1992.

Dr. Kessler testified that nicotine contained in cigarette moke releases a certain chemical (dopamine) in the "pleasure centers" of the brain, resulting in similar effects as addicting drugs such at heroin and cocains. Dr. Kessler falled to acknowledge that many different pleasurable and not so pleasurable experiences and activities also result in the Once again, the attempted analogy becomes meaningless when viewed objectively and without blinders. Doparatine release is es an electric sel och or siap in the face and also occurs in response to pleasant It will occur if one Attempting to mystify a basic physical reaction and implying that tical response to both pain and pleasure. of dopamine in these "pleasure centers". periences of all hinds. me pert of the ne

8 cherior. Dr. Koesler's third criterion, reinforcing behavior, erronsous implication that the condition only occurs with sample of the attempt to invest commonplace concepts with scientific effecting drugs. Such 3 act the case. As presented in the 1968 Surgeon General's Report, inforcing behavior wirely refers to the fact that a pleasure experience will likely be Dr. Kaszler cites two lines support for the daims regarding reinforcement from nicotine. a chemical or activity." whether is imply Reinfo growldes yet another mystique, combined Ä ત /%

That aritmals can be trained to self-administer picothe; and

causes activation of "pleasure claim that nicotine centers" in the brain involving dope fiit. Ä

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drugs is misleading at best.

it only occurs with a

important, not the source. Further, we reject the notion that the reinforcement, or strempts to separate reinforcement involving chemicals from In reality, it is the magnitude of the effect that is most pleasure, derived from eigaretts smoking is solely the result of ingestion of nicotine. those involving activities. The report and Acially

Sall'administration Opiate antagonists painful electric abooks, and morphine addicted monkeys have been trained to self-administer 8 reinforcers when compared to comine and methylphenidene (Rimita"). 22 published a ingesting nicotine are in any way similar to those of truly "addicting" drugs. Scientists at the limited circumstances, this does not imply that the effects produced by or the motivation for were in line with the ownerall weight of the scientific evidence, which has consistently found dininister e and water and mail-death if not stopped tring either drug th rman Gray School of Medicine, in association with a Reynolds Tobacco scientist, recently Although it is true that animals will self-administer nicotine under certain very and micotive 100 peer-reviewed study demonstrating that nicotine and caffeine are very weak **Equicity** become booked and self-edm has proves the existence of an "addiction". Moreover, animals do of substances. sating very painful withdrawal symptoms. trained to self-administer cocaine or heroin. both weak reinforcers. B Animals have been trained to self-administer very Animals can be inister it to the enclusion of However, none of these trained to self-Once they start Their Coding

Withd and tructors. Although alcotine withdrawal was defined in 1987 by min Association (DSM-III-R) as an element of vobacco dependence

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Methy Dworth eni-late and Cocaine." Kedio D g Reinforcing R Nicotine Vol. 2-593-602 (1993). Caffein

Drug Dependent Griffithe, R., Griffiths, R.R., Dr. of Stimulant Orugo edy, J.V., and Bigalow, G.E., Tred NIDA Monograph 37, 1981 icting The Dependence Liability eting San Francisco, nanion of Human

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the associated symptoms were identified in the 1964 Surgeon General's Report: restlessness stated that these symptoms were the same as those seen when any well-liked behavior was suddenly stopped. Not sing new has been established in this area. Caffeine withdrawal is militime headacha." Under Dr. Kessier's definition, cuffeine and beroin should be treated the physical symptom anciety, trouble concentrating and other "mild and variable symptoms". and well-defined, including well-estabilished 200

munious involved in williamwal from truly addicting drups such as beroin, cocaine, and mptoms of hard drug withdrawal normally require medical of the severe physical and behavioral mptoms reported by cigarette smokers when they stop are of die from An addict undergoing withdrawal from hard drugs is red his actions while in the throse of withdrawal. This is nover enitude reported by desert and people changing sleep patterns (e.g. 9 sleobol, who quit. They conti barbinurates 7 aging from the first in third shift withthewal If nor ned with kind and me With III Smoking

2 1964 Surpeon Cemeral's Report, mins, at 35

Rerised K DSX-ELR t should be

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produced by R.

much is that, under any objective scientific (or common sense) measure, cigarette smoking should not be considered "addictive" is why our critics strain so mightily to demonstrate that smoking is "addictive". Cigarette smoking is more like drinking coffee and eating chocolate than like using or any truly addicting hard drug. er, are unpopular, which The plain

usion and others support their assertions by repeating a deluge of facts that

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coffee "addiction" can be satisfied immediately upon awakening which have coffee prepared by Manufacturers of coffee makers have even developed machines exact times to ensure that the

8 B General's Report, advanted that caffeine meets their new definition of addiction 2-3 cups a day colles diminers who suddenly stop drinking colles. coffee, cole, and ten drinkers as caffeine addicts. Caffeine is psychoactive and the and beroin because of this? Nell Benowitz, one of the editors of the 1988 Surgeon last longer than those of nicotine. M It should be pointed out that Dr. Kessler's "definition" of addiction would classify There is a well-established physical withdrawal syndrome for Many people experience a "strong urge" for a le caffeine similar to

ed patients who continue to drink A SEPTEM Surpeo

ioduced

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19 e Use Disorders, 1(0), page 683, 1989 en, Lof Beher, Mad. 5(4): 415,

' :}

to caffe-ne, although the extent of caffeine addiction in the population is unknown."

If the same "standards" are applied to caffeine, should the FDA also be considering (or should you suggest that it begin) regulating coffee and soft drinks as drugs?

One final point is important. Essentially every claim made about manipulating constantly monitor the alcohol consent of their products throughour microtine in eigerettes by Dr. Kessler can be made about alcohol in beer, wine and spirits. ermentation process. To precisely control the level of alcohol. Been and wines are Alcobol is added to fortified thes. High alcobol mait highors are also available to the public. While no one will dispute that alcohol can be a truly addicting substance under any definition, there is no move to and we do not believe there should be. wide range of alcohol content. d to the public with a Spirits menufacturers pulste alcohol as a

Why Prople Chaose in Smoke

tte and other sensory aspects of smoking. A few moments with a eigerette can be a break ould guit if they could break this 'addiction'. In the current climate of social disapproval Methoditical correct man is unpopular for smokers to honestly state that they smoke for the issue of why people smoke by concluding, as the antipoliting supporters be relies upon conclude, that smoking is an "addiction" and smokers ure and enjoyment. Yet for bundreds of years smoking has been accepted as a social Smokers enjoy the m, providing a p sesurable, enjoyable break from normal activities.

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Benowitz, N.L., "Clinical Pharmacology of Caffeine." Ann. Rev. Med., 41(0) 277-288, 1990.

during boring or intensive tasks, or a nice complement to a meal. All of these highly subjective reasons for : moting have found support in scientific publications.

Dr. Kessler pejeratively refers to "top tobacco industry officials" when referencing reviewed scientific journals because they do not believe that tobacco is addictive. He then internationally respected Reymolds Tobacco scientists who have published widely in peer-Des on to mischaracte ize their data. In the journal article referenced by Dr. Keatler, Dr. surmed up the evidence concerning addiction and tobacco use: Volumes and Princhart

We believe that Warburton (1990) has developed a balanced functional sheets of aicotine use that recognizes the beneficial psychological effects of aicotine. This resource of psychological effects of aicotine. This resource of psychological noof hypothesis holds that people smoke eigenemes primarily for purposes of enjoyment, performance abancement and/or anniesy reduction. This theory also passes the convince sense seat of why people smoke. They smoke, no because heights and ordered to aicotine, but because they achieved to an another, but because they achieved the convince which are usually connected from smoking, enjoy these benefits which are notally connected to aicotine.

We believe the distinctions are clear and cannot be stated more clearly it are what was said in the 1964 SCR (Surgeon General' Report). The practice (smolting) should be labeled habituation to distinguish it clearly from addiction, since the biological effects of abbeion, like coffee and other caffeine-containing beverages, . . . are not comparable to those produced by morphish, alleiched, berthurstes, and many other potent addiction; change (p. 350, emphasis in original). If we lose this common sense perspective of the role of nicotine in tobaccuse, those of us who enjoy the "lift" we receive from that first on of coffee in the morning or that one detail is the latent of a hard-core crack or heroin addict.

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Robinson and l'ritchard, supra, at 405-6.

No scientific treakthrough has occurred since the 1964 Surgeon General's Report to warrant classifying citarette smoking as "addictive". All of the essential facts describing the behavior have been well known for years. The only thing that has changed is the political climate surrounding cigarette smoking, and with it the ability of anti-smoking critics to develop a new definition of "addiction" solely to include cigarette smoking within it.

Conclusion

The facts are clear.

- Reynolds Tobacco does not add nicotine to its cigarettes.
- Reynolds Tobacco does not manipulate nicotine yields in its cigarettes in order to create, maintain, or satisfy "addiction".
- Cigare to smoking is not an "addiction" under common sense and honest comparison with truly "addicting" drugs.

Simply put there is no factual basis or policy reason for the FDA to regulate cigarettes as drugs. The result of FDA regulation, moreover, would be a ban, or prohibition, of cigarettes. Dr. Kestier made this point clear in his recent statement before the Subcommittee. Members of this Subcommittee have stated that a ban or prohibition is not their intent; the American public resoundingly rejects the prohibition of cigarettes as well.

We encourage a dislogue that will lead to progress rather than prohibition.

Extension of Food and Drugs Act to Tobacco and Tobacco Products

Speech of

Hon. Reed Smoot

of Utah

in the

Senate of the United States

Jane 10, 1929

for printed at Government expense)



United States
Government Printing Office
Washington: 1929

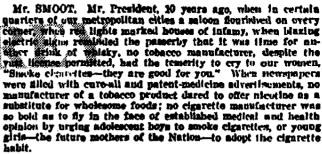
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produced by

SPEECH

HON. REED SMOOT



Not since the days when public opinion rose in its might and amote the dangerous drug traffic, not since the days when the vendor of harmful nostrums was swept from our atreets, has this country witnessed such an orgy of buncombe, nunckery, and downright faischood and fraud as now marks the current compaign promoted by certain eightette manufacturers to create a yast woman and child market for the use of their product.

In bringing to the attention of my colleagues in Congress a situation which demands strong legislative remedy if the health and welfare of the Nation are not to be increasingly undermined by an evil which promises to be greater than alcohol I desire to make it clear that no attack is intended upon the tobacco growers of our country, many of whom are in the grip of persicious eigerette-manufacturing interests; that I realize that many tobacco manufacturers, with a due sense of their social obligations, have refrained and are refraining from expiolting public health in the sale of their products; and that the use of tobacco as a moderate indulgence by adult people is not in question. I rise to denounce insidious cigarette campaigns now being promoted by those tobacco manufacturing in-terests whose only god is profit, whose only bible is the balance sheet, whose only principle is greed. I rise to denounce the unconscionable, heartless, and destructive attempts to exploit the women and youth of our country in the interest of a few powerful tobacco organizations whose rapacity knows no

Whatever may be said of the moderate indulgence in the use of tobacco it in clear that the issue raised before the country in some of the current eigurette campaigns in the issue raised by urging excessive eigenrate emoking; by flumnting appeaks to the youth of our country; by misrepresenting established medical and legith findings in order to encourage cigarette addiction.

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These great eigerette company, has which millions are being poured in order toxirente new armies of eigerette addicts, have been accompanied by a barrage of the most putent hypserisy. "There is not the slightest basis, either in this company's advertising or radio brondensting, for any soggestion that this or any other tobacco company is planning to create a vast child market for charettes," George Wazhington 11th, president of the American Tobacco Co., has protested in the newspapers. "I should be no shocked," he has deciated, "as anybody clse if a tobacco company should undertake to

appeal to adolescents."

What is to be said for such a statement, when at the very moment that this is written, the American Topacca Octubers to found on the biliberrals of the Nation patters showing an

udobreent girl anoking cigarettes?

What is to be said shout such a statement when the American Totacco Co, stands self-convicted before the country for breadcasting tainted testimontals from professional athletes, urging eigenetics as aid to physical provess, although it has since been forced by immunerable projects addressed to radio stations to discontinue these claims on the air?

What is to be said for such a statement when to this very day the America Telesco Co. attucks public health by urging young women to maintain slender figures by smoking eighrettes?

For months the gigantic machine of deception and frowd act up by perulcious eigerette interests has been gathering monentum. Under cover of alleged competition—the "newer competition," as Mr. 1111 describes it in an article in the June levie of World's Work—the campaign to place a cigarette in the mouth of every woman and youth in the United States has now been extended to every town and village in the country. Mr. Hill's necount of the accidental observation that led to the present cigarette campaign is very filuminating. He writes:

I was driving home from tay office one afternoon last fall when my car was stopped by a tradic light. A very fat women was standing on the near current chewing with evident reliab on what may have been a pickle, but which I thought of instantly through a setural association of bless as a sweet.

This had no great significance until a taxionb pulled in between my our and the curb and blocked my view of the fut woman. I found my eyes resting easily on a pretty and very modern dapper whose figure was quite the heat word in slimures. The girl took advantage of the helt to produce a long eigensite bolder, filled it with a fag, and lighted up.

But pickle or early—ho did not care which—this flash of vision in the brain of the president of the American Tobacco Co, became, we are told, the basis of a \$12,000,000 advertising effort in which footbult coaches were hired to tell the American boy that eigerettes put vim and vigor into the most strengous of all physical exercises; in which the alleged testimoulais of opera slugers were used to persuade the American public that eigerette anoke was southing to the throat; in which current erichetties were made to say that the eigerette habit was a social assect; in which moving-picture actremen, stage stars, and 66724—5644

officer, were paid to tell the American woman that they retained their tipely figures only by smoking clearettes.

What a pity Mr. Hill's limousine did not take him further affeld. He might have traveled to Atlantic City on May 20 and heard the appalling reports made at the annual convention of the National Tuberculosis Association. Here is how the New York Times of May 30 heads its account of the necting:

Find tuberculous gains among girls; physicians of convention by risk to anaching, late hours, and inadequate diet; victims of "flapper" age; death rate 50 per cent greater than among boys five years age, man, husbown, to be 100 per cent higher.

If any semiolecom he could have seen the dwarfed body of an habitual boy moker, ruined in health and marals by being led lines the cleanate habit at a tender age.

Air. Illii might have inquired of any reputable physician who could have told him that intestinal cutarris, ulcer, liver homorrhages, kidney degeneration, chronic brouchitts, heightened blood pressure, palpitation of the heart, procused anemia,

Itright's disease, neurasthenia, cancer of the mouth and nose, premature sentilty are but a few of the aliments of which alcothen potential stands convicted by the medical profession.

The cell example set by the most powerful factor in the American tolacco industry has been quick to bear fruit. A whicepread advertising campaign is now under way that actually features eigenrettes as a newly discovered nerve tonic. In many women's colleges resuntment has been caused by the free cilerisation of eigenrettes designed to start girl undergraduates on the read to eigenrette addiction. Another company sends congrutulatory birthday greetings with a carron of eigenrettes to loys who have reached 16 years of age. Every temptation that greed can devise is thus placed in the path of our boys and girls.

No wonder that the serious social problems presented by this huge campaign of miseducation have attreed so many elements of our national life. In the Journal of the American Medical Association of December 8, 1928, the campaign is condemned in the following words:

Who would have thought 10 years ago that eigenvites would be sold to the American public " " actually by insistence on the Besithful qualities of certain brande?

That American womanhood passed during the last five years through one of those periodic crame that have afflicted womanhied ofnes the world began is not a necrot. Indeed, women everywhere began to calif-vate arjubilite figures, dieted themselves to the point of destruction; and toberculosis rates, particularly for young girls, ross in many communities. * * * * * * *

At the same time the manafacturers of Lucky Sirike cigarettes having secured, they chain, statements from 20,078 physicians that Lucky Sirikes were less treitating than other eigerettes, are pressuigating in which they sucret that those eigerettes do not cut the wind or impair the physical condition, and that Lucky Sirikes entiry the longing for things that make you fat without interfering with a normal appetite for health feeds. To which the simple reply in made, "Hoopy."

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The human appetite is a district marriandom and the attends to agree that it he aborded or desire, at his regular was of subsect is small that yellows.

The Life Extension Institute, whose board is made up of leading American physicians and public-health authorities, is definitely on record with regard to tobacco. In its builetin headed What it Costs to Smoke Tobacco, it is declared that among 5,000 smokers examined who showed various physical impairments requiring medical supervision, 6 per cent suffered from thickened arteries, 15 per cent from rapid pube, 15 per cent from decayed teeth, 13 per cent from gam recession, 27 per cent from barked pyperhea. The Life Extension Institute likewise reports college tests which Indicate lower scholarship receiped by students who inhabel tobacco fumes. The building includes the following statement:

How many deaths have occurred from typholismadikeom interface operations upon those who have injured the nervous mechanism of their circulation by tobacco will never be known. But surgeous have noted instances of fathers to tally after operations among eigercite sweeze.

No less alguificant is the fact that at a time when powerful eigerette interests are screaming from every biliboard and through militons of radio sets their pernicious advice to the women of our country to maintain a similer figure by smoking eigerettes, the Metropolitan Life Insurance Co. finds it necessary to warn its policyheidets as well as the general public against such harmful dicting.

The dealer for extreme stemleraces-

Reads its statement-

is bringing serious consequences. When stimulants, acclatives, or drugs are substituted for the fuoi needed to build health or strength the penalty is certain and severe—troposity broken health and sometimes death.

The bibliography of these who have condemned the excessive use of tobacco includes some of the greatest names in medicine and public health in the history of this country-Dr. Alexander Lambert : the late Doctor Janemry, of Johns Hopkins Hospital : Doctor Sheldon, of Cornell University Medical College; Dr. Eugene L. Plak, medical director of the Life Extension Institute; Professor Pack, of the University of Utah; Prof. M. V. O'shea, of the University of Wisconsin; Dr. Arthur Decement Bush, of the University of Vermont; Prof. W. P. Lombard, professor of physiology of the University of Michigan; Dr. Harvey W. Wiley: Dr. Samuel G. Dixon, commissioner of health for Peonsylvania; Dr. J. H. Keilings, superintendent of Battle Creek Saultarium; Dr. Francis Dowling; Dr. Eibert H. Burr; Dean Horacti, of Ohio Wesleyan University; Dr. Henry Churchill Kinc president of Oberlin College; Robert Lee Bates, of the nyschological laboratory of Johns Hopkins University; Dr. L. Plerco Clark, consulting neurologist of the Manhattan State Hospital New York. A host of other investigators might be mentlowed.

But a no more pertinent, timely, and measured condemnation of the current eigerette propaganda can be quoted than the 50724-5544

statement and on The 7 1029, by Dr. Hugh S. Cumming, Sur-

The characte holds indulged in to excess by women tends to cause nervoustants and immunia. If American women penetrily contract the holds, are exports now radients they are doing, the entire Nation will suffer. The physical tone of the whole Nation will be lowered. The number of American women who are smoking eigerettes today is amaxing. The habit hather a women more than it does a man. The women's nervous system is more highly organized than the man's. The reaction is, therefore, more intense. It may rule her completion, causing it to become gradually nuben. Propagands are inglist character to make the continuous application for food is not in the interest of public health, and practice, which by young persons will be positively knimful.

It was natural that the great voice of the pulpit should rise in hidgening polest against the appailing exploitation of the health min welfafe of the American family inherent in the current eignreite propagands.

The beard of Christian education of the Presbyterian Church in the United States; the board of temperance, prohibition, and public morals of the Methodist Episcopal Church; the board of education of the Reference Church in America, as well as the Congregational Church extension boards, have denounced the institutes eigerett campaign. The United Presbyterian General Assembly, meeting at Pittsburgh on June 4, 1929, protested in a resolution against the "boldness of the foliage interests in advertising their wares over the radio, in new spapers, and on billiboards."

The World Society of Christian Endeavor, through its president, I.e. Daviel D. Poling, of New York, his issued a stirring call for action. Here is what Doctor Poling mays in his open letter addressed to the 1,800 branches of that great organization:

I spenk first of all-

He declares-

as an American father who, with an American father's concern for his own children and for all children challenges current charactes advertibles. I speak in the account place as the president of the World Modely of Children Ecologyes, as the representative, therefore, of more than 4,000,000 young people who share with me the deep bottling against this advertising. • • • Womanhood is being exploited for trade. Excess is being encouraged as efficiency. Boys and girls in the crucial years of adolescence are being led to stant their bodies and dwarf their misda.

Nor is the compaign announced by the Woman's Christian Temperature Union against such untruthful and misleading disarrette ny peaks any less decisive.

Nearly every leading organization concerned with the education of our young, with juvenile delinquency, with the maintenance of public morals, has taken some action to protest against the wholesale attempt to nicotinize the youth of our Nation, including the National Education Association, the Amerlean 1's d-ration of Teachers, the American Eugenics Society, the American Child Welfare Association, and temperous parentteacher associations throughout the country.

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The General Federation of Woman's Clubs declared in views on cigarette smoking at the different benealed convention in a resolution reading as follows:

Whereas the cigaretts is a warious menace to the physical, mental, moral, and spiritual development of the youth of our country: Thorefore he it

Reseived, That the women of the General Federation go on record as favoring an educational propaganda against cigarettes, and further indersing State legislation prohibiting the furnishing of cigarettes to miners.

The contemptions term "tainted testimentals," coined by leading advertising men to describe the purchased testimenty offered by elgarotte interests, is sufficient indication of the way in which American business generally view this comparign. What quackery! Overnight, as it were, the sid coffee asi," against which we solemnly warned our young locates the severign good. Are you suffering from sore throat? Gargle with eigarettes—there is not a cough in them. Would you be slender and charming? Substitute eigarettes for wholesome foods. Would you gain laurels on the football field? Cigarettes will give you vim and vigor. Would you be a great general? Forget that an army marches on its atomach—it marches on eigarette stubs. Would you be a popular sea here? Throw the life preservers overboard—and place your trust in a package of cigarettes.

It is a high attribution of American business standards that the Association of National Advertisers, including the most reputable business interests of the country, at its meeting in French Lick, Ind. during the week of May 27, passed the following resolution repudiating the tainted testimonials now used in the nation-wide eigerette propagands on the biliboards and in the magazines:

Whereas we believe that advertising, in order to be lastingly effective and profitable, must not only be truthful and electre but must also appear to be; and

Whereas, this being our helief, it naturally follows that we view with disapproval the use of the so-called paid testimonials: Therefore

Resolved, That our members continue carefully to acculinize their own advertising from this standpoint, and that they express this opinion of the association on insincero testimonials, gratuitous or paid for, at every opportunity.

It is important to note, also, that out of 780 advertising agencies and national advertisers which answered a questionnaire from the National Better Business Bureau, 681 expressed emphatic condemnation of tainted testimonial advertising. The eigerette campaign, it is evident, is a libel—a great libel—upon American business ethics.

Lest there be those who ma, think that the great public interest in this problem is beyond the proportions of the issue involved, let us glance for a moment at the enormous growth of the eigerette habit since the vast machinery of public exploitation has been set in motion by the eigerette industry. Here is a table showing the—

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Consumption of chinese elementics, and other monoinctures in the Called Lintes, 2014-10-17; Junuary July, 19-0

| Year Year | (Intinios) | Claurites (unnited) | Othermanular- tural (pasteds) |
|---------------|--|--|---|
| 1914 | 8, 782, 772, 995 0, 474, 729, 947 7, 776, 912, 265 5, 261, 214, 340 8, 911, 114, 352 8, 411, 500, 735 | 13, 247, 891, 407 14, 84 (, 710, 44.) 15, 544, 559, 152 25, 678, 145, 551 37, 109, 179, 187 6, 579, 769, 159 | 434, 75%, 710 411, 653, 664 433, 915, 578 661, 677, 763 977, 337, 973 66) 77, 6, 488 |
| 101°- 1054 | 8, 120, 724, 725 9, 234, 984, 344 7, 625, 934, 133 7, 691, 001, 913 7, 921, 621, 930 7, 506, 556, 560 | 47, 104, 455, 7, 10 42, 114, 842, 307 69, 221, 612, 192 60, 817, 873, 794 64, 152, 413, 943 78, 816, 848, 846 | 411, 472, 441 407, 376, 149 377, 148, 134 411, 913, 484 407, 978, 123 492, 528, 623 |
| 19 | 7, 325, 319, 444 7, 372, 833, 363 7, 268, 132, 744 6, 634, 714, 163 | 29, 174, 254, 622 64, 174, 254, 521 67, 347, 611, 719 102, 151, 454, 006 | 477, 320, 623 477, 721, 643 460, 962, 611 391, 540, 127 372, 674, 261 |

it consided by adding imports to the production and subtracting exports; the trade of Aleska, Hawaii, and Porto Rico is included. Import, of clears and eigenstess are a parted in pseudo. They are converted to transports by assuming 1,000 clearables to which 2 pseudo. The flavor for prot tion from 1916 include manufactures in bonded warehouses, not available prior to that these.

A definition of the control o

It will be noted that the consumption of eigerettes in the United States has now reached the enormous total of 102,000,003,003, an increase of 113 per cent during the last decade. In 1901 only 3,000,000,000 eigerettes were consumed by the American public. The increase from that figure to the present annual rate of consumption is more than 3,000 per cent.

What is the bill which the Nation pays for this huge tobacco consumption? In terms of premature death, of discuse, of ill beath, of lessened efficiency, of less through fires started by smoking, the sum is incalculable. In the price paid directly in dollars and cents, the following comparative take, compiled by the National Education Association for the year 1020, based on United States Treasury Department tax returns, is illuminating:

It is evident that there is a deeper, more sinker purpose behind the vast anothinery of deception created for the eigerotte campaign than the "now competition" by which the American Telescee Co. seeks to closk its attack upon public health. The eigerette interests concerned in the present campaign are playing for larger stakes than a mere share of the farmer's, the dairy producer's, the baker's, the jee cream man's, the caudy man's, the sugar man's, and the greer's deliar. All producers and purreyors of raw and manufactured fool products are well within their rights in attacking such a campaign of unfair competition, when the American public is urged, on the basis of miscleading and destructive health claims, to substitute eigerettes Co724—5344

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for wholesome foods. Fairs groups and farm organizations at a time when Congress is lighted in described a competent problems of farm relief, are fully justified in describing a company which seeks to increase humbel and destructive dieting habits that have done so much to reduce the per capita consumption of foodstuffs in the United States.

What pernicious toinece interests really see is the vacant throne created by the deposition of King Alcohol. And well they may. Let me quote from the second volume of Modern

Medicine, by Doctors Orier and McCrea:

Many patients (alcoholic) in whom the attack seems to be without exciting cause, if questioned closely, are found to be great tebacce amoters, and the cause of their outbreak is really a security possessing by tobacco. Usually the history is that they macks aspecially the concrete amoters, incremently and to excess. This smally makes them nervous. Then they smake more to quiet their services and facility to accept another narcotic to quiet them; then they naturally turn to alcohol.

The link between the drink habit and the drug habit inherent in excessive eigercite smoking has been made clear repeatedly

by medical authority.

The insidious cigarette campaign now in progress concerns every father and every mother of children in the country; every man and woman requestion for the education of the young; every modical and health authority; every employer of labor; overy worker whose elicitory is decreased by the eigenste habit. It concerns overy welfare organization, every tuberculous association, every juvenile protective association.

Are we to be an helpless as China, where the British-American Tobacco Co, has so succensfully introduced the general hebit of cigarette addiction? The late President Emeritus Charles W. Ellot, of Hervard, was erawitness to the campaign there, will called for the free distribution of billions of cigarettes. "Thus the Christian matters," he excluded, "confer the benefits of

civilization on the Orient1"

Are the interests of public bealth here to be completely overridden when this mano American Tobacco Co., a heavy advertiser in France, does not dare to offer its cigarettes as a substitute for food products in that country?

The challenge buried at public health, public welfare, and business decency by destructive cigaretta interests must be fairly and amarely met. State legislation is now attempting to

cope with the problem.

In Illinois a bill has been introduced in the general assembly for the restriction of advertising which urges young people to smoke cigarettes. A similar measure is before the senate of that State.

A bill to prevent the advertising of cigarettes through the radio and on the bilibuards, introduced February 12, is now before the Idaho State Senate.

The laws of the State of Maine have put tobacco in the class

with noisons and narcotic drugs.

In the State of West Yirginia tobacco is placed by statute in the class with opium.

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in Missignn a bill has been offered in the lower house that adjusted to promote the sale of eightelies to

In the State of Utah biliboard and street-car advertising of clearettes has been made a misdemeasur.

in Mississippi Dr. W. F. Bond, Sinte superintendent of educacion, is calling for a nation-while effort to combat the militons of dollars that eigarctic manufacturers are spending for propa-

to California schools are required by law to instruct children as to the injurious effects of tolacco, and the sate of eigarettes is forbidden to any girl or boy under the are of 18.

in trailently every other State of the Union public disapprovided eigenstics for minors is expressed by law in one form sor attorier.

M 1 present time intensive efforts are in progress in rarious consumities against the billioned advertising of the American Tabacco Co., which has dured to feature a poster picturing a girt of tender years actually amoking charactes. These community efforts are now in progress in Arkansas, Culifornia, Colorado, Idaho, Itlinda, Iowa, Massachusetts, Michigan, Minnesona, Mississippi, New York, North Carolina, North Bakota, Oklahoma, Oregon, South Dakota, Texas, Tennessee, Washington, and other States.

But the fine has come for the Courses of the United States to take definite action. The sale of character, promoted upon a national scale, is properly a subject of interstate commerce. Character and many tobacco products are nationally advertised in media which in most cases are subject only to Federal

control.

I am convinced that the present great Brease assumed by certain eigenvite interests would have been impossible if tobacco and tobacco products were subject to the same regulations that apply to basic food products or to drug products, in which

latter classification tobacco properly belongs.

Only a fine technicality permits tobacco at the present time to examp proper classification and control. In section t of the fined and drups act drups are defined as "all medicines and preparations recognized in the United States Pharmacognization or National Formulary, for internal and external use."

In the past tobacco has been listed in the pharmsespela as a drug, but was dropped in the last revision of this work with the following explanation, which makes the reason for onlistion achievident:

Tolorce, the leaves of Nicotians tabacum, was efficial in former pharman-operias, but was dropped in the last revision. It was formerly highly categories as a valuency, but in little used as a sing by intelligent physicians. A detection of tolorce in which currently multimate hom been discovered makes a satisfactory before realons.

Although tobacco is thus officially bussed as a remedy, despite the claims of the American Tobacco Co. that it promotes the health of the user, the fact remains that tobacco contains many injurious drugs, including meetine, pyridin, carbolic acid, massonia, marsh gas, and other products.

While basic food products upon which our great agricultural population is dependent, while any drugs and inclicincs the use

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or ninese of which may have a bearing upon public health, are under the Food, Drug, and Insectlede Administration of the United States Department of Agriculture, tobacco, the abuse of which has become a national problem, is not included within the regulations of the food and string factor the merely technical reason that since modern medical practice has abusiness it as a remedy it is no longer listed by the pharmacopesis.

The bill which I now by sefore this body, designed to protect public health and public westere from the further exploitation

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of freemonable elegarette interests, provides:

(a) For the inclusion of tobacco and tobacco products within

the score of the food and drugs act.

(b) For the amendment of the food and drugs act so that claims made for food and drug products in any advertising medium subject to interstate-commerce control should be under the same strict regulation now applied to labels or other descriptive matter on, within or around the container in subjets the product is packed.

l'ubite interest, efficiency, and economy require the mientiment to the food and drugs act empowering the Food Drug, and Insecticide Administration to proceed against any manufacturer of a drug or food product whose public sales claims are partly or wholly unjustified by the facts. The Federal Trude Cominisalon, which now cooperates with the Food, Drug, and Insectields Administration, has no laboratory facilities and no adequate corps of investigators. Procedure is slow, therefore, and in matters affecting public health vast harm may be done before the Federal Trade Commission is ready or able to take action in the

This measure is proposed, therefore, to remedy this situation and in order to avoid duplication, the overlapping of authority, the diffusion of remonability, and the dust expense to the

The bill which I now went to the Clerk's deak is designed to meet a problem of such great and immediate importance to public health and of such vital interest to our arricultural producers and business men that I am confident it deserves and will obtain the support of every Member of Congress.

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Extension of Food and Drugs ct to Tobacco and Tobacco

Speech of

on. Reed Smoot

CITALLY DAVAGED OF CONGRESS

of Utah

in the

Senate of the United States

June 10, 1929

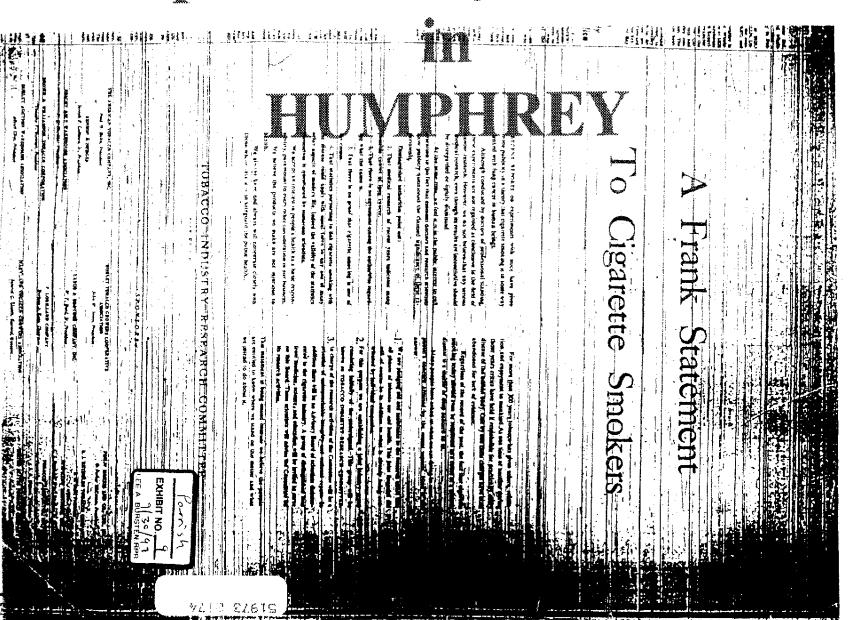
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